

CURRICULUM VITAE– March 2018

Dr. Kirk Owen Winemiller***Contact Information***

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Professional Positions***Dates***

Regents Professor, Texas AgriLife Research	Jan. 2009-present
Associate Department Head for Undergraduate Curriculum, Dept. of Wildlife & Fisheries Sciences, Texas A&M University	June 2011-Aug. 2012
Associate Chair, Interdisciplinary Research Program in Ecology and Evolutionary Biology, Texas A&M University	Jan. 2008-Dec. 2009
Chair, Interdisciplinary Research Program in Ecology and Evolutionary Biology, Texas A&M University	Oct. 2004-Dec. 2007
Full Professor, Dept. Wildlife & Fisheries Sciences, Texas A&M Uni.	Sept. 2002-present
Associate Professor, Dept. Wildlife & Fisheries Sciences, Texas A&M Uni.	Sept. 1996-Aug. 2002
Fulbright Visiting Graduate Faculty, University of the Western Llanos, Guanare, Venezuela	May-Sept. 1997
Visiting Graduate Faculty, University of Oklahoma, Norman, OK	July 1994-1995
Assistant Professor, Dept. Wildlife & Fisheries, Texas A&M University	May 1992-August 1996
Research Associate- Oak Ridge National Lab, Environmental Sciences Division, Oak Ridge, TN & Graduate Program in Ecology, University of Tennessee, Knoxville, TN	1990-1992
Lecturer- Department of Zoology, University of Texas, Austin, TX	1987-88, 1990
Fulbright Research Associate- Zambia	1989
Curator of Fishes- TNHC, Texas Memorial Museum, Austin, TX	1988-89
Graduate Assistant Instructor- University of Texas, Austin, TX	1981-87

Education

Ph.D. (Zoology)– University of Texas, Austin, TX, 1987
 M.S. (Zoology)– Miami University, Oxford, OH, 1981

B.A. (Zoology)– Miami University, Oxford, OH, 1978

Academic Awards & Professional Honors

2018– ESA Fellow (elected), Ecological Society of America

2018– Senior Faculty Fellow, Texas AgriLife Research, TAMUS

2017– Vice-Chancellor’s Research Award, College of Agriculture and Life Sciences, TAMUS

2016– Dean’s Outstanding Achievement Award for International Impact, College of Agriculture and Life Sciences, TAMU

2015– Distinguished Achievement Award for Research, Association of Former Students, TAMU

2013– Dean’s Outstanding Achievement Award for Research as an Interdisciplinary Research Team, College of Agriculture and Life Sciences, TAMU

2013– Special Recognition in Fisheries Work, Texas Chapter American Fisheries Society

2012– Outstanding Fisheries Research Award, Texas Chapter American Fisheries Society

2009– Bush Excellence Award for Faculty International Teaching, TAMU

2009– Regents Professor, Texas AgriLife Research, TAMUS

2008– President’s Award for Excellence in Service to International Students, TAMU

2008– Faculty Fellow, Texas AgriLife Research, TAMUS

2007– AAAS Fellow (elected), American Association for the Advancement of Science

2004– Vice-Chancellor’s Undergraduate Teaching Award, College of Agriculture and Life Sciences, TAMU

2003– Vice-Chancellor’s Graduate Teaching Award, College of Agriculture and Life Sciences, TAMU

2002– Faculty Fellowship, TAMU

2001– Ecological Society of America Delegate for TAMU 125th Anniversary Convocation

1997– Southwestern Association of Naturalists George Miksch Sutton Award in Conservation Research (for paper- SW. Nat. 40:314-321 co-authored with Anderson, Hubbs, Edwards)

1997– TAMU College of Agriculture and Life Sciences, Neuhaus Teaching Scholarship

1997– U.S. Fulbright Scholar Fellowship (Venezuela)

- 1996– TAMU Nominee (1-of-2) for NSF Presidential Faculty Fellowship
- 1994– Society of Sigma Xi (TAMU Chapter)
- 1994– TAMU Nominee (1-of-2) for NSF Presidential Faculty Fellowship
- 1992– George Mercer Award, Ecological Society of America (for best ecological publication, *Ecological Monographs* 60, 331-367)
- 1992– Phi Beta Delta Honor Society for International Scholars (Alpha Eta Chapter)
- 1988-1989– U.S. Fulbright Fellowship (Zambia)
- 1982– University Summer Fellowship (University of Texas)
- 1981– Outstanding Master's Student Research Award (Miami University)
- 1980-1981– Graduate Student Achievement Award (Miami University)
- 1977– Phi Sigma Scientific Honor Society (Miami University)

Invited Panels and Boards

- 2016– Review Panel (1 of 8 members) for proposals submitted to the Aquatic Biodiversity Research Program of the U.S. Agency for International Development (USAID) Partnerships for Enhanced Engagement in Research (PEER) program.
- 2013-2014– Review Team (1 of 4 members) for setting flow criteria for priority tributaries to the Sacramento-San Joaquin Delta in California. The Review Team evaluated the California State Water Resources Control Board's document entitled "Potential Methods to Develop Flow Criteria for Priority Tributaries to the Sacramento-San Joaquin Delta" and made recommendations for strategies and methodologies.
- 2011-present– Bay and Basin Expert Science Team (BBEST) for the Brazos River Basin (elected by regional stakeholder group for this 12-month effort funded by the state); BBEST Co-chair; Ecology Subcommittee. This science team reviewed scientific information and performed analyses over a 12-month period in order to recommend environmental flows for rivers, streams and estuaries of the basin. The effort was mandated by Texas SB 3/HB 3 (2007), and recommendations will be used by state agencies for future water rights permitting and regional water planning.
- 2010-2016– Board of Trustees, The Texas Nature Conservancy (two 3-year terms); Freshwater Conservation Subcommittee.
- 2009– Special Committee to assist the Science Advisory Board for the Texas Environmental Flows Committee to produce guidance document on biology overlays for the Bay and Basin Science Teams.
- 2008-2014– Bay and Basin Expert Science Team (BBEST) for the Sabine/Neches River Basins and Sabine Lake (elected by regional stakeholder group for this 12-month effort funded by the state); Chair Biology Subcommittee. This science team reviewed scientific information and performed analyses in order to recommend environmental flows for rivers, streams and

estuaries of the basin. The effort was mandated by Texas SB 3/HB 3 (2007), and recommendations will be used by state agencies for future water rights permitting and regional water planning.

2007– NSF Review Panel, Ecology Program, Division of Environmental Biology, Arlington, VA.

2006-present– International Advisory Committee, Pan-American Journal of Aquatic Sciences

2006– Panel to Address Exotic Loricariids in Texas, San Antonio River Authority, San Antonio, TX (presenter)

2006-2008– State of Texas, Scientific Advisory Committee (SAC) for the Legislature’s Environmental Flows Committee (Texas Senate Bill 2 program).

2004-2007– Texas Aquatic Life Use Committee, U.S. Environmental Protection Agency.

2004-2005– Panel for Environmental Flows for Caddo Lake, Jefferson, TX (presenter).

2004-2005– NAAT Committee for Aquatic Diversity, Texas Parks and Wildlife Department.

2004– Advisory Board, Conference on Aquatic Biodiversity Conservation, American Museum of Natural History, New York.

2004-2011– University Council on Water Resources, TAMU delegate.

2003-2004– Panel to Review the Texas Instream Flow Program, National Research Council, National Academy of Sciences, Washington, DC.

2001– Emiquon Science Advisory Council, The Nature Conservancy of Illinois.

2001-2010– Rio Grande Fishes Recovery Team (Consultant), USFWS.

2000– Panel, Aquatic Ecosystem Classification, U.S. EPA, Washington, DC.

1999-2004– Devils River Minnow Recovery Team, USFWS.

1999– Panel, Future of Ichthyology in Bolivia, Cochabamba, Bolivia.

1998-2001– Texas Parks and Wildlife Department Freshwater Fishery Advisory Board.

1998– Alabama Center for Estuarine Studies Panel, U.S. EPA, Washington, DC.

1996– Review Panel, River Floodplain Ecology, Universidade Estadual de Maringá, Brazil.

1995– NSF Review Panel, Postdoctoral Research Fellowships in Biosciences Related to the Environment, Leesburg, VA.

1995– Panel, All Taxa Biological Inventory, Guanacaste Conservation Area, Costa Rica.

1993-1994– EPRI/COMPMECH Coordinator's Committee, Dauphin Island, AL.

1990-1991– EPRI/ COMPMECH Committees advising fish population dynamics modeling efforts, Algonquin National Park, Ontario, Canada; Durham, NC; Colombia, SC; Madison, WI.

Research Areas

General– Population, Community and Ecosystem Ecology; Evolutionary Theory; Aquatic Ecology; Systematics and Biology of Fishes; Freshwater and Estuarine Ecology; Tropical Ecology; Fisheries Management; Conservation Biology.

Specific– Trophic Ecology and Food Web Theory; Regulation of Populations and Community Structure; Dynamics of Fluvial and Estuarine Ecosystems; Life History Theory; Feeding and Reproductive Biology of Fishes; Fish Evolution; Biodiversity Conservation and Sustainable Use of Natural Resources.

Professional Societies

Ecological Society of America (1987-present, Editorial Board 2001-present)

American Society of Ichthyologists and Herpetologists (1982-present,
Board of Governors 1997-2001, 2005-2009)

Southwestern Association of Naturalists (1988-present)

Neotropical Ichthyological Association (1989-present, Executive Board 1992-1993)

Society of American Naturalists (1990-present)

American Institute of Biological Sciences (1991-present)

American Fisheries Society (1991-present)

Texas Chapter American Fisheries Society (1992-present)

Society of Sigma Xi (1994-present)

Texas River and Reservoir Management Society (1997-present)

Desert Fishes Council (2001-present)

American Association for the Advancement of Science (2001-present)

Brazilian Ichthyological Society (2003-present)

International Society for River Science (2008-present)

Refereed Publications

245. Fitzgerald, D.B., M.H. Sabaj-Perez, L.M. Sousa, A.P. Gonçalves, L.R. Py-Daniel, N.K. Lujan, J. Zuanon, K.O. Winemiller, and J.G. Lundberg. Diversity and community composition of rapids-dwelling fishes of the Xingu River: Implications for conservation amid large-scale hydroelectric development. *Biological Conservation*, In press.

244. Kaymak, N., K.O. Winemiller, S. Akin, Z. Altuner, F. Polat, and T. Dal. Spatial and temporal variation in food web structure of an impounded river in Anatolia. *Marine and Freshwater Research*, In press.

243. Pease, A.A., M. Mendoza-Carranza, K.O. Winemiller. 2018. Feeding ecology and ecomorphology of cichlid assemblages in a large Mesoamerican river delta. *Environmental Biology of Fishes*, In press.

242. Correa, S.B. and K.O. Winemiller. 2018. Terrestrial-aquatic trophic linkages support fish production in a tropical oligotrophic river. *Oecologia*, In press.
241. Arantes, C.C., K.O. Winemiller, M. Petreire, L. Castello, L.L. Hess, and C.E. Freitas. 2018. Relationships between forest cover and fish diversity in the Amazon River floodplain. *Journal of Applied Ecology* 55:386-395.
240. Winemiller K.O. 2018. Trends in Biodiversity: Freshwater. Pp. 151-161 In: *The Encyclopedia of the Anthropocene, Volume 3*, D.A. DellaSala and M.I. Goldstein, Editors, Elsevier, Oxford, UK; also published online as *Reference Module in Earth Systems and Environmental Science*, Elsevier Science Direct.
239. Pianka, E.R., L.J. Vitt, N. Pelegrin, D.B. Fitzgerald, and K.O. Winemiller. 2017. Towards a periodic table of lizard niches, or exploring the lizard niche hypervolume. *The American Naturalist* 190:601-616.
238. Peterson, C.C., F.W. Keppeler, D.E. Saenz, L.M. Bower, and K.O. Winemiller. 2017. Seasonal variation in fish trophic networks in two clear-water streams in the Central Llanos region, Venezuela. *Neotropical Ichthyology*, 15(2), e160125.
237. Fitzgerald, D.B., K.O. Winemiller, M.H. Sabaj Pérez, and L. Sousa. 2017. Using trophic structure to reveal patterns of trait-based community assembly across niche dimensions. *Functional Ecology* 31:1135-1144. doi:10.1111/1365-2435.12838
236. Strictar Pereira, L., A.A. Agostinho, and K.O. Winemiller. 2017. Revisiting cannibalism in fishes. *Reviews in Fish Biology and Fisheries* 27:499-513. doi:10.1007/s11160-017-9469-y
235. Strictar Pereira, L., F.W. Keppeler, A.A. Agostinho, and K.O. Winemiller. 2017. Is there a relationship between fish cannibalism and latitude or species richness? *PLOS ONE* 12(1): e0169813. doi:10.1371/journal.pone.0169813
234. Röpke, C.P., S. Amadio, J. Zuanon, E. Ferreira, C. Pereira de Deus, T.H.S. Pires, and K.O. Winemiller. 2017. Simultaneous abrupt shifts in hydrology and fish assemblage structure in a floodplain lake in the central Amazon. *Scientific Reports (Nature Publishing Group)* 7:40170. doi:10.1038/srep40170
233. Ou, C., C.G. Montaña, and K.O. Winemiller. 2017. Body size and trophic position relationships among fishes of the Lower Mekong Basin. *Royal Society Open Science* 4:160645.
232. Vitule, J.R.S., A.A. Agostinho, V.M. Azevedo-Santos, V.S. Daga, W.R.T. Darwall, D.B. Fitzgerald, F.A. Frehse, D.J. Hoeinghaus, D.P. Lima Jr., A.L.B. Magalhães, M.L. Orsi, A.A. Padial, F.M. Pelicice, M. Petreire Jr., P.S. Pompeu, and K.O. Winemiller. 2017. We need better understanding about functional diversity and vulnerability of tropical freshwater fishes. *Biodiversity and Conservation* 26(3):757-762.

231. Schalk, C.M., C.G. Montaña, K.O. Winemiller, and L.A. Fitzgerald. 2017. Trophic plasticity, environmental gradients, and food web structure of tropical pond communities. *Freshwater Biology* 62:519-529.
230. Bastos, R.F., F. Corrêa, A.M. Garcia, and K.O. Winemiller. 2017. Are you what you eat? Effects of trophic discrimination factors on estimates of food assimilation and trophic position with a new estimation method. *Ecological Indicators* 75:234-241.
229. Garcia, A.M., K.O. Winemiller, D.J. Hoeinghaus, M.C. Claudino, R. Bastos, F. Correa, S. Huckembeck, J. Vieira, D. Loebmann, P. Abreu, and C. Ducatti. 2017. Hydrologic pulsing promotes spatial connectivity and food web subsidies in a subtropical coastal ecosystem. *Marine Ecology Progress Series* 567:17-28.
228. Winemiller, K.O. 2017. Food web dynamics when divergent life history strategies respond to environmental variation differently: a fisheries ecology perspective. Pp. 306-323 In: *Adaptive Food Webs: Stability and Transitions of Real and Model Ecosystems*, J. Moore, P. deRuiter, K. McCann and V. Wolters, Editors, Cambridge University Press, Cambridge, UK.
227. Scotti, M., M. Hartvig, K.O. Winemiller, Y. Li, F. Jauker, F. Jordán, C. Dormann. 2017. Trait-based and process-oriented modeling in ecological network dynamics. Pp. 228-256 In: *Adaptive Food Webs: Stability and Transitions of Real and Model Ecosystems*, edited by J. Moore, P. deRuiter, K. McCann and V. Wolters, Cambridge University Press, Cambridge, UK.
226. Fitzgerald, D.B., K.O. Winemiller, M.H. Sabaj Pérez, and L.M. Sousa. 2017. Seasonal changes in the assembly mechanisms structuring tropical fish communities. *Ecology* 98(1):21-31.
225. Pizano-Torres, R.I., K.A. Roach, and K.O. Winemiller. 2016. Response of the fish assemblage to a saltwater barrier and paper mill effluent in the Lower Neches River (Texas) during drought. *Journal of Freshwater Ecology*, DOI: 10.1080/02705060.2016.1253622
224. Rodger, A.W., K.B. Mayes, and K.O. Winemiller. 2016. Larval fish abundance in relation to environmental variables in two Texas Gulf Coast rivers. *Journal of Freshwater Ecology* 31(4):625-640.
223. Correa S.B., K.O. Winemiller, and D. Cárdenas. 2016. Isotopic variation among Amazonian floodplains woody plants and implications for food-web research. *Biota Neotropica* 16(2): e20150078.
222. Ou, C. and K.O. Winemiller. 2016. Seasonal hydrology drives shifts in production sources supporting fishes in the Lower Mekong River Basin. *Canadian Journal of Fisheries and Aquatic Sciences* 73:1342-1362.

221. Rodger, A.W., K.B. Mayes, and K.O. Winemiller. 2016. Preliminary findings for a relationship between instream flow and Shoal Chub recruitment in the Lower Brazos River, Texas. *Transactions of the American Fisheries Society* 145:943-950.
220. Bailly, D., F.A.S. Cassemiro, K.O. Winemiller, J.A. F. Diniz-Filho, and A.A. Agostinho. 2016. Diversity gradients of Neotropical freshwater fish: evidence of multiple underlying factors in human-modified systems. *Journal of Biogeography* 43:1679-1689.
219. Zuluaga Gómez, M.A., T. Giarrizzo, D.B. Fitzgerald, and K.O. Winemiller. 2016. Morphological and trophic diversity of fish assemblages in rapids of the Xingu River, a major Amazon tributary and region of endemism. *Environmental Biology of Fishes* 99(8):647-658.
218. Possatto, F.E., M.K. Broadhurst, H.L. Spach, K.O. Winemiller, R.B. Millar, K.M. Santos, and M.R. Lamour. 2016. Mapping the temporal-spatial distribution of threatened batoids to improve conservation in a subtropical estuary. *Journal of Fish Biology* 89:1098-1104.
217. Fitzgerald, D.B., M. Tobler, and K.O. Winemiller. 2016. From richer to poorer: successful invasion by freshwater fishes depends on species richness of donor and recipient basins. *Global Change Biology* 22(7):2440-2450.
216. Röpke, C., S. Amadio, K.O. Winemiller, and J. Zuanon. 2016. Seasonal dynamics of the fish assemblage in a floodplain lake at the confluence of the Negro and Amazon rivers. *Journal of Fish Biology* 89:194-212. doi:10.1111/jfb.12791
215. Winemiller, K.O. and 39 coauthors. 2016. Balancing hydropower and biodiversity in the Amazon, Congo, and Mekong: Basin-scale planning is needed to minimize impacts in mega-diverse rivers. *Science* 351/6269:128-129.
214. Winemiller, K.O., P. Humphries, B.J. Pusey. 2016. Protecting large apex predators. Pp. 361-398 In: *Conservation of Freshwater Fishes*. G. Closs, M. Krkosek and J.D. Olden, editors, Cambridge University Press, Cambridge, England.
213. Gilbert, L.E., C. Christen, M. Altrichter, J.T. Longino, P.M. Sherman, R. Plowes, M. Swartz, K.O. Winemiller, J.A. Weghorst, A. Vega, P. Phillips, C. Vaughan, and M. Kappelle. 2015. Chapter 12, The Southern Pacific lowland evergreen moist forest of the Osa region. Pp. 360-411 In: *Costa Rican Ecosystems*, M. Kappelle, editor, University of Chicago Press, Chicago.
212. Willis, S.C., K.O. Winemiller, C.G. Montaña, J. Macrander, P. Reiss, I.P. Farias, and G. Ortí. 2015. Population genetics of the speckled peacock bass (*Cichla temensis*), South America's most important inland sport fishery. *Conservation Genetics* 16:1345-1357.
211. Labay, B.J., D.A. Hendrickson, A.E. Cohen, T.H. Bonner, R.S. King, L.J. Kleinsasser, G.W. Linam, and K.O. Winemiller. 2015. Can species distribution models aid bioassessment when reference sites are lacking? Tests based on freshwater fishes. *Environmental Management* 56:835-846.

210. Akin, S. and K.O. Winemiller. 2015. Habitat use and diets of juvenile spot (*Leiostomus xanthurus*) and Atlantic croaker (*Micropogonias undulatus*) in a small estuary at Mad Island Marsh, Texas. *Texas Journal of Science* 64(1):3-31.
209. Winemiller, K.O., D.B. Fitzgerald, L.M. Bower, and E.R. Pianka. 2015. Functional traits, convergent evolution, and periodic tables of niches. *Ecology Letters* 18:737-751.
208. Roach, K.A. and K.O. Winemiller. 2015. Hydrologic regime and turbidity influence entrance of terrestrial material into river food webs. *Canadian Journal of Fisheries and Aquatic Sciences* 72:1099-1112.
207. Pease, A.A., J.M. Taylor, K.O. Winemiller, and R.S. King. 2015. Ecoregional, catchment, and reach-scale environmental factors shape functional-trait structure of stream fish assemblages. *Hydrobiologia* 753:265-283.
206. Kaymak, N., K.O. Winemiller, S. Akin, Z. Altuner, F. Polat, and T. Dal. 2015. Stable isotope analysis reveals relative influences of seasonal hydrologic variation and impoundment on assimilation of primary production sources by fish in the Upper Yesilirmak River, Turkey. *Hydrobiologia* 753:131-147.
205. Montaña, C.G., C.A. Layman, and K.O. Winemiller. 2015. Species-area relationship within benthic habitat patches of a tropical floodplain river: an experimental test. *Austral Ecology* 40:331-336.
204. Espínola, L.A., C.V. Minte-Vera, H.F. Júlio Junior, L.N. dos Santos, and K.O. Winemiller. 2015. Evaluation of factors associated with dynamics of *Cichla ocellaris* invasion of the Upper Paraná River floodplain system, Brazil. *Marine and Freshwater Research* 66:33-40.
203. Souza, U.P., F.C. Ferreira, F.M. de Souza Braga, and K.O. Winemiller. 2015. Feeding and reproductive allocation of *Astyanax intermedius* (Characiformes, Characidae) in a headwater stream of the Atlantic Forest, Brazil. *Ecology of Freshwater Fish* 24:123-132.
202. Winemiller, K.O., D.L. Roelke, J.B. Cotner, J.V. Montoya, L. Sanchez, M.M. Castillo, C.G. Montaña, and C.A. Layman. 2014. Pulsing hydrology determines top-down control of basal resources in a tropical river-floodplain ecosystem. *Ecological Monographs* 84(4):621-635.
201. Tobler, M., K. Roach, K.O. Winemiller, R.L. Morehouse, and M. Plath. 2014. Population structure, habitat use, and diet of giant waterbugs in a sulfidic cave. *Southwestern Naturalist* 58(4):420-426.
200. Watkins, C.D., K.O. Winemiller, M.A. Mora, D. Bu, C.K. Chambliss, B.W. Brooks, and D. Phalen. 2014. Assessment of mosquitofish, *Gambusia affinis*, health indicators in relation to domestic wastewater discharges in suburbs of Houston, USA. *Bulletin of Environmental Contamination and Toxicology* 93:13-18.
199. Roach, K.A., K.O. Winemiller, and S.E. Davis, III. 2014. Autochthonous production in

- shallow littoral zones of five floodplain rivers: effects of flow, turbidity, and nutrients. *Freshwater Biology* 59:1278-1293.
198. López Fernández, H., J. Arbour, S. Willis, C. Watkins, R.L. Honeycutt, and K.O. Winemiller. 2014. Morphology and efficiency of a specialized foraging behaviour, substrate sifting, in Neotropical cichlid fishes. *PLOS One* 9(3) e89832.
197. Taylor, J., R. King, A. Pease, and K.O. Winemiller. 2014. Nonlinear response of stream ecosystem structure to low-level nutrient enrichment. *Freshwater Biology* 59:969-984.
196. Montoya, J.V., D.A. Arrington, K.O. Winemiller. 2014. Seasonal and diel variation of shrimp (Crustacea, Decapoda) in littoral habitats of a tropical floodplain river. *Journal of Natural History* 48:557-574.
195. Correa, S.B. and K.O. Winemiller. 2014. Flooding, fruiting phenology and resource partitioning among fishes in the Amazon. *Ecology* 95:210-224.
194. Montaña, C.G., K.O. Winemiller, and A. Sutton. 2014. Intercontinental comparison of fish ecomorphology: null model tests of community assembly at the patch scale in rivers. *Ecological Monographs* 84:91-107.
193. Hurtado, L.A., E. Carrera, A. Adite, and K.O. Winemiller. 2013. Genetic differentiation of a primitive teleost, the African bonytongue (*Heterotis niloticus*), among river basins and within a floodplain river system in Benin, West Africa. *Journal of Fish Biology* 83:682-690.
192. Wang, Z., D. Huang, L. Xu, X. Lu, K.O. Winemiller, and G. Lei. 2013. Effects of hydrologic regulation on icefish population dynamics, species assemblages and fishery yield in Lake Nanyi, China. *Ecology of Freshwater Fish* 22:637-644.
191. Lujan, N.K., K.A. Roach, D. Jacobsen, K.O. Winemiller, V. Meza, V. Rimarachín, and J. Arana. 2013. Aquatic community structure and anthropogenic impacts across an Andes-to-Amazon fluvial gradient in Peru. *Journal of Biogeography* 40:1715-1728.
190. Jackson, A.T., A. Adite, K.A. Roach, and K.O. Winemiller. 2013. Primary production, food web structure, and fish yields in constructed and natural wetlands in the floodplain of an African river. *Canadian Journal of Fisheries and Aquatic Sciences* 70:543-553.
189. Montaña, C.G. and K.O. Winemiller. 2013. Evolutionary convergence in Neotropical cichlids and Nearctic centrarchids: evidence from morphology, diet and stable isotope analysis. *Biological Journal of the Linnean Society* 109:146-164.
188. López-Fernández, H., J.H. Arbour, K.O. Winemiller, and R.L. Honeycutt. 2013. Testing for ancient adaptive radiations in Neotropical cichlid fishes. *Evolution* 67:1321-1337.

187. Jackson, A.T., A. Adite, K.A. Roach, and K.O. Winemiller. 2013. Fish assemblages of an African river floodplain: a test of alternative models of community structure. *Ecology of Freshwater Fish* 22:295-306.
186. Roach, K.A., N.F. Jacobsen, C.V. Fiorello, K.O. Winemiller, and A. Stronza. 2013. Gold mining and mercury bioaccumulation in a floodplain lake and main channel of the Tambopata River, Peru. *Journal of Environmental Protection* 4:51-60.
185. Shafer, C.S., D. Scott, J. Baker, and K.O. Winemiller. 2013. Recreation and amenity values of urban stream corridors: implications for green infrastructure. *Journal of Urban Design* 18(4):478-493.
184. Cooperman, M., S. Nam, M. Arias, T. Cochrane, V. Elliot, T. Hand, L. Hannah, G. Holtgrieve, L. Kaufman, A. Koenig, V. Kum, K. McCann, P. McIntyre, B. Min, C. Ou, N. Rooney, K. Rose, J. Sabo, and K. Winemiller. 2012. A watershed moment for the Mekong: new regulations may boost sustainability of the world's largest inland fisheries. *Cambodian Journal of Natural History* 4:51-60.
183. Lujan, N.K., K.O. Winemiller, and J.W. Armbruster. 2012. Trophic diversity in the evolution and community assembly of loricariid catfishes. *BMC Evolutionary Biology* 12:124. doi:10.1186/1471-2148-12-124.
182. Garcia, A.M., J.P. Vieira, K.O. Winemiller, L.E. Moraes, and E.T. Paes. 2012. Factoring scales of spatial and temporal variation in fish abundance and environmental correlates in a subtropical estuary. *Marine Ecology Progress Series* 461:121-135.
181. López Fernández, H., K.O. Winemiller, C. Montaña, and R.L. Honeycutt. 2012. Diet-morphology correlations in the radiation of South American geophagine cichlids (Perciformes: Cichlidae: Cichlinae). *PLoS One* 7(4):e33997 (14 pp.)
180. Pease, A.A., A.A. González-Díaz, R. Rodiles-Hernández, and K.O. Winemiller. 2012. Functional diversity and trait-environment relationships of stream fish assemblages in a large tropical watershed. *Freshwater Biology* 57:1060-1075.
179. Ou, C., C.G. Montaña, K.O. Winemiller, and K.W. Conway. 2011. *Schistura diminuta*, a new miniature loach from the Mekong River drainage of Cambodia (Teleostei: Nemacheilidae). *Ichthyological Explorations of Freshwaters* 22(3):193-200.
178. Kristin Scharnweber, K., M. Plath, K.O. Winemiller, and M. Tobler. 2011. Dietary niche overlap in sympatric asexual and sexual livebearing fishes *Poecilia* spp. *Journal of Fish Biology* 79:1760-1773.
177. Lujan, N.K., D.P. German, and K.O. Winemiller. 2011. Do wood-grazing fishes partition their niche?: morphological and isotopic evidence for trophic segregation in Neotropical Loricariidae. *Functional Ecology* 25:1327-1338.

176. Winemiller, K.O., S.C. Zeug, C.R. Robertson, B.K. Winemiller, and R.L. Honeycutt. 2011. Food web structure of coastal streams in Costa Rica revealed by dietary and stable isotope analyses. *Journal of Tropical Ecology* 27:463-476.
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- Baker, J. and K. Winemiller. 2017. Preliminary results of recreational use attainability analyses of the Double Mountain Fork Brazos River (1241) and Sabana River (1222C). Texas AgriLife Research, Texas A&M University System. Final Report to the Texas Commission of Environmental Quality. 91 pp. + Appendices.
- Baker, J. and K. Winemiller. 2017. Preliminary results of recreational use attainability analyses of the Colorado River below Lake J.B. Thomas (1412) and Beals Creek (1412B). Texas AgriLife Research, Texas A&M University System. Final Report to the Texas Commission of Environmental Quality. 86 pp. + Appendices.
- Winemiller, K., C. Conway, A. Rodger, C. Nessner, and C. Hemingson. 2014. Flow dependent species: life history and habitat associations in Texas Gulf Coast Rivers. Texas AgriLife Research, Texas A&M University System. Final Project Report to the Texas Parks and Wildlife Department, 72 pp. + 10 Appendices.
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Research Grants, Contracts & Awards

	<i>period</i>	<i>amount</i>
National Science Foundation- Dissertation improvement grant for L.M. Bower: Intercontinental functional trait patterns and comparison of fish assemblages (PI)	2016-2018	\$10,230
Texas Commission on Environmental Quality- RUAA for steams in Texas (PI)	2015-2017	370,000
Texas Parks and Wildlife Department - Potential influence of exchanges between the Lower Guadalupe River and oxbow lakes on food web dynamics (PI)	2015-2017	70,794
Gulf Coast Prairie Landscape Conservation Cooperative via contract with Univ. North Texas- Quantification of alligator gar recruitment dynamics using a river-stage specific floodplain inundation model (CoPI; PI is D.J. Hoehinghaus; total project budget is \$200,000)	2015-2017	12,595

Texas Water Research Institute- RUAA for Arenosa Creek (<u>PI</u>)	2015	78,532
Texas Water Development Board via contract with BioWest- Environment flows research for the Brazos River Basin (<u>CoPI</u>) (Other CoPIs, E. Oborny, T. Bonner, G. Guillen, B. Brooks, J. Duke; total project budget is \$312,000)	2014-2015	25,000
Texas Commission for Environmental Quality- RUAA for streams in Texas (<u>PI</u>)	2014-2015	270,000
CAPEs, Science Without Borders (Programa Pesquisador Visitante Especial)(Collaborator)(PIs are A. Agostinho and L. Gomes, Univ. Est. de Maringá, Brazil)(total budget for collaborative project to synthesize knowledge and model dynamics of the Upper Paraná River ecosystem is \$192,583)	2014-2016	88,712
NSF, Belmont Forum, Collaborative Research: Maintaining productivity and incomes in the Tonle Sap fishery in the face of climate change (<u>CoPI</u>)(PI is L. Hannah, Conservation International, total award for collaborative project is \$620,845)	2013-2016	37,514
Texas Parks and Wildlife Department/SWG- Flow dependent species: life history and habitat associations in Texas Gulf Coast Rivers (<u>PI</u> ; CoPI is K. Conway)(\$110,000 was to my lab)	2013-2014	135,000
National Science Foundation, DEB- Collaborative Research: Baseline survey of the Lower Xingu River rapids, Brazil: a highly diverse, globally unique, and immediately imperiled ecosystem (<u>PI</u>)(PI of a separate companion NSF grant fro this collaborative research project is J. Lundberg; CoPIs are N. Lujan & M. Sabaj)	2013-2016	126,585
National Science Foundation, EAR-CR-Water Sustainability and Climate: Integrative modeling of the interactions, connectivity and interdependence of water systems and ecosystem services in the Lower Mekong Basin (<u>Collaborator</u> , PIs J. Felkner, S. Shaikh) (Total project budget is \$150,000)	2012-2013	3,000
Texas Commission for Environmental Quality- RUAA for Texas rivers and streams (<u>PI</u>)	2011-2013	240,357
National Park Service, Gulf Coast Cooperative Ecosystems Studies Unit- Freshwater flow recommendations to mitigate effects of climate change to estuarine habitats (<u>PI</u>)	2011-2013	76,375
Texas Commission for Environmental Quality- RUAA for streams	2010-2011	299,512

in the Brazos River Basin (<u>PI</u> ; CoPIs D. Scott, S. Shafer) (My budget = \$284,291)		
Institute of Renewable Natural Resources/TXDoT- Assessing the Status of Freshwater Mussels in Texas (<u>PI</u> ; CoPI N. Wilkins)	2009-2010	28,168
Texas Commission for Environmental Quality- RUAA for streams in the Brazos River Basin (<u>PI</u> ; CoPIs D. Scott, S. Shafer) (My budget = \$293,025)	2009-2010	384,731
International Sportfish Fund- Funds donated by the estate of Carolyn Kelso Weirichs for fisheries ecology research (<u>PI</u>)	2009	1,000,000
National Science Foundation- Dissertation improvement grant for A.A. Pease: Fish assemblage structure and functional trait diversity along a longitudinal fluvial gradient (<u>PI</u>)	2008-10	10,780
Conselho Nacional de Desenvolvimento Científico e Tecnológico, Brazil- Structure and dynamics of aquatic food webs of Lagoa do Peixe National Park, Brazil. (<u>CoPI</u> ; PI A. Garcia; other CoPIs J. Vieira, D. Hoeinghaus, P. Abreu, D. Loebman)(My budget is ~0.5K)	2008-09	20,315
National Geographic Society- Diversity among endemic fishes in the Rio Iri, Xingu Basin, Para State, Brazil (<u>CoPI</u> ; PI H. Lopez; other CoPIs I. Farias, L. Rapp-Py-Daniels, T. Hrbek, G. Orti, S. Willis)	2008-09	16,310
Texas Commission for Environmental Quality- Recreational Use attainability analysis (RUAA) for bayous in Houston, Texas (<u>PI</u> ; CoPIs D. Scott, S. Shafer)(My budget = \$181,736)	2008	343,000
Texas Commission for Environmental Quality- Review of desktop methodology for establishing environmental flows in Texas rivers and streams (<u>PI</u>)	2007-08	107,000
Texas Commission for Environmental Quality- Development of biological indicators of nutrient enrichment for application in Texas streams (<u>CoPI</u> with a budget of \$39,619; PI- R. King, Baylor)	2007-09	70,769
National Science Foundation- IGERT: Applied biodiversity science graduate training grant (<u>CoPI</u> ; PI L. Fitzgerald; other CoPIs A. Stronza, U. Kreuter, T. Lacher) (My budget in support of 3 trainees is ~250K)	2007-12	3,002,038 <i>+TAMUS match of \$100,000</i>
National Science Foundation- REU Supplement to: Adaptive radiation and evolutionary convergence in Neotropical cichlids (<u>PI</u>)	2007-08	12,000

National Science Foundation, DEB- Adaptive radiation and evolutionary convergence in Neotropical cichlids (<u>PI</u> ; CoPI R.L. Honeycutt) (My budget = 232,239)	2005-09	232,239
Texas Commission for Environmental Quality- Refinement and validation of habitat quality indices (HQI) and aquatic life use (ALU) indices for application to assessment and monitoring of Texas surface waters (<u>PI</u> ; CoPI R. King, Baylor Univ.)(My budget = \$204,050)	2005-90	371,050
National Science Foundation- Biological Instrumentation- A capillary based automated sequencer for high throughput sequencing and genotyping at the Center for Biosystematics & Biological Diversity (<u>CoPI</u> ; PI A. Cognato; other CoPIs J. Bickham, R. Honeycutt, J. Manhart, R. Long, A. Pepper)(budget shared equally)	2004-06	129,985 <i>+TAMUS match of \$54,423</i>
National Science Foundation- Dissertation improvement grant for C.A. Layman: Complex effects of humans and piscivores on fish assemblages in a species-rich tropical river (<u>PI</u>)	2004-05	8,030
The Nature Conservancy- Development of draft environmental flow recommendations for Caddo Lake (<u>PI</u>)	2004-05	67,000
Texas Water Development Board- Response of oxbow lake biota to hydrologic exchanges with the Brazos River channel (<u>PI</u> ; CoPI F. Gelwick) (My budget = \$72,000)	2003-04	72,000
U.S. Army Corps of Engineers- Response of stream and riparian biota of the Pedernales River Basin to variation in landscape features and vegetation cover (<u>PI</u> ; CoPIs N. Wilkins, C. Munster, B. Wilcox, J. Cathey) (My budget = \$66,250)	2003-04	254,000
National Science Foundation- REU Supplement to: Variable effects of nutrients, productivity, consumption and the flood pulse..... (<u>PI</u>)	2003-04	6,000
U.S. Army Corps of Engineers- Response of stream and riparian biota of the Edwards Plateau to variation in landscape features and vegetation cover (<u>PI</u> ; CoPIs N. Wilkins, C. Munster, B. Wilcox) (My budget = 56K)	2003	56,000
TAMU Faculty Fellowship	2002-08	100,000
National Science Foundation- Undergraduate Mentoring in Environmental Biology. (<u>CoPI</u> ; PI R. Honeycutt; other CoPIs R. Autenrieth, L. Fitzgerald, F. Gelwick, H. Wilkerson)(My budget ~ 300K)	2002-07	442,000
National Science Foundation- REU Supplement to: Variable effects of nutrients, productivity, consumption and the flood pulse..... (<u>PI</u>)	2002-03	6,000
National Science Foundation- Variable effects of nutrients, productivity, consumption and the flood pulse on floodplain river ecosystems. (<u>PI</u> ;	2001-05	310,000

CoPIs D. Roelke, J. Cotner)(my budget ~ 230K)

National Science Foundation- REU Supplement to: Variable effects of nutrients, productivity, consumption and the flood pulse..... (PI)	2001-02	6,000
National Geographic Society- Ecological determinants of biodiversity in a neotropical blackwater river (PI)	2001-02	11,475
National Science Foundation- Dissertation improvement grant for D.A. Arrington: Evaluation of a model of local community assembly in a temporally dynamic, species rich neotropical river (PI)	2001-02	6,005
City of Del Rio/Texas Water Development Board- San Felipe Creek environmental monitoring (PI)	2001-03	44,129
U.S. Army Corps of Engineers- Ecosystem/wildlife implications of brush management for water runoff (CoPI; PI- N. Wilkins)(my budget = 65K)	2001-02	155,840
National Science Foundation- Workshop on biodiversity of the Niger River corridor in Mali. (CoPI; PI- F. Pezold, Univ. of LA at Monroe) (My budget ~ 2K)	2000-01	37,090
National Geographic Society- Ecological survey of fish diversity in Benin, West Africa. (PI)	2000-01	11,740
Texas A&M Office of Research-Minigrant- Convergent evolution in neotropical cichlids based on molecular phylogenetics. (PI)	2000	1,310
International Sportfish Fund (donated funds)- Research on neotropical fishes. (PI)	2000	5,600
National Geographic Society- Population structure of migratory fishes. (PI)	2000	16,720
TAMU Interdisciplinary Research Initiative- Migratory fish and food web subsidy- a stable isotope approach. (PI)	1998-99	22,416
National Geographic Society- Biological survey of the upper Rio Pasimoni, Venezuela. (PI)	1998-99	18,000
International Sportfish Fund (donated funds)- Research on neotropical fishes. (PI)	1998-99	12,800
Tour Apure- <i>In-kind support</i> (lodging, fuel) for river food web project. (PI)	1998-99	12,000
Brazos River Authority- Biotic indicators of ecological integrity in the Brazos-Navasota River watershed. (PI)	1998-99	36,600
Texas A&M Office of Research-Minigrant- Stable isotope of sulfur for examining the role of migratory fish in food webs. (PI)	1998	1,300
National Geographic Society- First biological survey of Venezuela's Upper Rio Siapa. (PI)	1998-99	14,425

Texas Nature Conservancy- Spatiotemporal fish survey of Mad Island Marsh Preserve. (CoPI, F. Gewick- PI)(My budget ~ 5K)	1997-99	6,725
Texas Nature Conservancy- Effects of an introduced predator on fishes in the Dolan Falls preserve. (PI)	1997-98	2,025
Neuhaus Teaching Scholarship- Learning problems in ecology. (PI)	1997	2,560
U.S. Fulbright Scholar Program- Teaching/research in Venezuela. (PI)	1996-97	20,000
National Geographic Society- Longitudinal patterns of river fish assemblages. (PI)	1996-97	11,025
TAES Research Enhancement Program- Brazos River nutrient/carbon exchange. (CoPI, J. Cotner- PI)(My budget ~ 30K)	1996-97	36,600
TAES Research Enhancement Program- Brazos River floodplain ecosystems. (PI)	1993-95	67,900
U.S. Bureau of Reclamation- Phantom Springs refuge for endangered fishes. (PI)	1993-95	18,100
Electric Power Research Institute- COMPMECH sponsorship for grad student (PI)	1993-96	40,500
Tour Apure- <i>In-kind support</i> (lodging) for peacock bass project. (PI)	1993-94	9,000
Corporación Electrificación del Caroní- <i>In-kind support</i> (food, lodging). (PI)	1993-94	5,000
ASOMUSEO- <i>In-kind support</i> (vehicle rental waivers) peacock bass project. (PI)	1993-94	9,600
Fundación Fluvial de Los Llanos- Ecology of peacock bass in Venezuela. (CoPI, D. Taphorn PI)	1993	3,500
TAMU International Programs- International travel grant. (PI)	1993	500
National Science Foundation- Food webs: Integration of patterns and dynamics. (PI; G. Polis, M. Vanni, J. Moore CoPIs)(My budget ~ 20K)	1993	21,800
National Science Foundation- Fish ecology in Latin America. (PI)	1993	21,100
National Geographic Society- Ecology of peacock bass in southern Venezuela. (PI)	1993	5,700
Texas Nature Conservancy- Composition and structure of Texas fish assemblages. (PI)	1993	1,100
National Geographic Society- Prey defense against piranhas in Venezuela. (PI)	1991	3,800
U.S. Fulbright Senior Research Scholarship- Variation in food webs of fish assemblages in Zambia, central Africa. (PI)	1988-89	34,000

NSF- Comparative ecomorphology & community ecology of neotropical fishes. (PI)	1985	4,500
National Geographic Society- Fish biology and community structure in Venezuela. (PI)	1984	6,000
Tinker Foundation- Fish diversity and community structure on Atlantic and Pacific slopes of Costa Rica. (PI)	1983	2,000
Sigma Xi- Comparative reproductive behavior of basses in Ohio. (PI)	1981	750
Sigma Xi- Effects of competition on predatory behavior of black basses. (PI)	1980	600

Invited Plenary & Symposium Lectures

- 2017– “Why does environmental pulsing promote productivity and resilience?” International Symposium on Flood-pulse Ecosystems, Siem Reap, Cambodia
- 2017– “Improving ecological forecasting by merging periodic tables of niches with individual-based modeling of food web dynamics”, Biennial Conference of the Brazilian Ichthyological Society, Porto Seguro, Brazil.
- 2017– “Impacts of dams in major tropical rivers”, Biennial Conference of the Brazilian Ichthyological Society, Porto Seguro, Brazil.
- 2015– “Flows and Fish in Texas Rivers (& The Things We Do To Them)”, Invited plenary lecture, Big Thicket Science Conference, Nacogdoches, Texas
- 2015– “Functional Traits, Convergent Evolution, and Periodic Tables of Niches”, Invited plenary lecture, IV Latin American Symposium of Ichthyology, San José, Costa Rica.
- 2015– “Evidence for Biotic Resistance in Highly Diverse Tropical Rivers”, Invited symposium contribution, Centennial Conference of the Ecological Society of America, Baltimore, MD (with D. Fitzgerald).
- 2015– “Influence of Deforestation on Fish Diversity and Biomass in the Amazon River”, Invited symposium contribution, Centennial Conference of the Ecological Society of America, Baltimore, MD (with C. Arantes).
- 2015– “Functional Traits, Convergent Evolution, and Periodic Tables of Niches”, Invited plenary lecture, Congreso Colombiano de Ictiología, Leticia, Colombia.
- 2015– “Functional Traits, Convergent Evolution, and Periodic Tables of Niches”, Invited talk, Special Session on Functional Traits in Fish Ecology, Biennial Conference of the Brazilian Ichthyological Society, Recife, Brazil.
- 2014– “Functional Traits, Convergent Evolution, and Periodic Tables of Niches”, Plenary talk, Annual Graduate Student Symposium, Biology Department, University of Louisiana at Lafayette.
- 2013– “Ecologia de Redes Tróficas – Analogia com Cartografia e Anatomia”, Plenary talk, 20th Biennial Conference of the Brazilian Ichthyological Society, Maringá, Brazil.

- 2013– “Coexistência de Peixes com Diferentes Estratégias de Vida: Respostas Nicho-Dependentes a Variações Ambientais”, Roundtable, 20th Biennial Conference of the Brazilian Ichthyological Society, Maringá, Brazil.
- 2013– “Programa Ciência sem Fronteiras: Conselhos para Encontrar uma Instituição e um Orientador no Exterior”, Roundtable, 20th Biennial Conference of the Brazilian Ichthyological Society, Maringá, Brazil.
- 2012– “Food Web Ecology– Analogy with Cartography and Anatomy” Plenary talk, Fifth Argentinian Congress of Limnology, Santa Fe, Argentina.
- 2011– “Ecologia de Peixes Neotropicais: Situação Atual e Perspectivas” Plenary talk, 19th Biennial Conference of the Brazilian Ichthyological Society, Manaus, Brazil.
- 2009– “Are Successful Fish Invasions Only from Species-rich into Species-poor Communities?” Invited talk, Symposium: The Future of Fish Biogeography, Annual Meeting of the International Ecological Society, Brisbane, Australia.
- 2009– “Biodiversity, Ecological Complexity and Flood Dynamics of Tropical Rivers: Can We Make River Ecology a Predictive Science?” Plenary talk, Biennial Meeting of the International Society for River Science, Tampa, FL.
- 2006– “The Challenge of Keeping All the Parts: Research Needs for Informing Environmental Flows Policy” Plenary talk, Charting the Course Conference, State Capitol, Austin, TX.
- 2005– “Seeking a Sound Ecological Environment: Issues of Scale for Biotic Indicators of Flow Variation” Plenary talk, Flow for the Future Conference, San Marcos, TX.
- 2004– “Scale and Resolution in Instream Flow Assessment” Instream Flow Workshop hosted by Texas River and Reservoir Management Society and Texas Chapter American Fisheries Society, College Station, TX.
- 2004– “In Search of the Periodic Table of Niches: Fishes Could Help Ecological Alchemy Evolve into Modern Science” Pianka Symposium, Ann. Meet. Amer. Soc. Ichthyologists & Herpetologists, Norman, OK.
- 2004– “Interplay between Scale, Resolution, Life History, and Prediction of Food Web Dynamics” First Annual Peter Yodzis Ecology Symposium, University of Guelph, Canada.
- 2003– “Food Web Science: Moving on the Path from Abstraction to Prediction” (Plenary lecture) Third Decadal Food Web Symposium, Giessen, Germany.
- 2003– “Ecology of African Fishes: Scientific Paradigms and Resource Conservation” (Plenary lecture) African Fish and Fisheries Conference, Cotonou, Benin.
- 2003– “Life History Strategies, Population Regulation, and Their Implications for Fisheries Management” Exploring Beverton’s Legacy Symposium, Ann Meet. American Fisheries Society, Quebec City, Canada.
- 2003– “Sources of Production for Food Webs” in Large Rivers, 2nd Large Rivers Symposium, Phnom Penh, Cambodia.
- 2001– “Life History Strategies and Population Regulation: Theory Predicts Consequences for Supplemental Stocking of Tarpon”, 1st International Tarpon Symposium, Port Aransas, TX

- 1999– “Role of Fishes in Tropical Floodplain Food Webs”, Plenary talk- 1st Congress of Bolivian Limnology and Aquatic Resources Management, Cochabamba, Bolivia.
- 1999– “Variation in Fish Assemblages of Brazos River Oxbow Lakes”, Invited Talk, Freshwater and Marine Science Session, Ann. Meet. Texas Academy of Sciences, Seguin, TX.
- 1998– “Tropical River Food Webs-Effects of Fish Movement”, Plenary talk- 13th Biennial Conference of the Brazilian Ichthyological Society, São Carlos, Brazil.
- 1998– “Effects of Seasonality and Fish Movement on Tropical River Food Webs”, Symposium on Tropical Fish Biology, Fisheries Society of the British Isles, Southampton, England (with D. Jepsen).
- 1998– “Migratory Fishes Subsidize Foodwebs of Oligotrophic Rivers in the Neotropics”, Symposium on Cross-Habitat Exchanges of Nutrients, Consumers, and Predators, International Ecological Society, Florence, Italy.
- 1998– “The Influence of Life History Strategies on Dynamics of Exploited Fish Populations from Lakes to Oceans”, Symposium on Ecology of Exploited Fish Populations- from Lakes to Oceans, American Society for Limnology and Oceanography, St. Louis, MO.
- 1997– “Conservation of Aquatic Diversity of River Floodplains: An Intermediate Disturbance Perspective”, Symposium on Conservation of Large River Floodplains, Annual Meeting of the Society for Conservation Biology (with D. Jepsen);
- 1996– “Relationships between Fish Life History Strategies and Population Responses to Disturbances” (Plenary lecture), Ann. Meet. AFS Western Div., Eugene, OR;
- 1996– “Longterm Dynamics of a Floodplain Fish Assemblage in the Venezuelan Llanos”, Neotropical Ichthyology Symposium, Ann. Meet. Amer. Soc. Ichthyologists & Herpetologists, New Orleans, LA;
- 1996– “Science Technology and Youth”, Texas A&M Univ.;
- 1995– “Fisheries and Water Management in River-Swamp Systems”, Ann. Meet. AFS, Tampa, FL;
- 1995– “Imperiled Fishes and Aquatic Communities Across the Southern Landscape: Spatiotemporal Data Bases for the 21st Century”, Ann. Meet. AFS, Tampa, FL;
- 1995– “Science Technology and Youth”, Texas A&M Univ.; 1995– “Texas Endangered Species”, Fossil Rim, Texas;
- 1994– “Structural and Functional Aspects of Diversity”, (Keynote speaker) Symposium on Fishes and Their Habitat, Lyon, France;
- 1994– “Food Webs”, Ann. Meet. Canadian Society of Zoologists, Winnipeg, Canada; 1994– “Science Technology and Youth”, Texas A&M Univ.;
- 1993– “Food Webs: Integration of Patterns and Dynamics” (Organizer- NSF funded symposium), Ft. Collins, CO;
- 1993– “Fish Ecology in Latin America” (Organizer- NSF funded symposium), Ann. Meet. ASIH, Austin, TX;
- 1993– “Science Technology and Youth Symposium”, Texas A&M Univ.;

- 1992– “Convergence and Divergence of Cichlid Fishes”, Ecomorphology Symposium, Ann. Meet. ASIH, Champaign, IL;
- 1991– “Individual-Based Approach to Modeling Fish Population Dynamics”, Ann. Meet. AFS, San Antonio, TX;
- 1990– Compmech Bay Anchovy Workshop, Raleigh, NC;
- 1988– "Organization for Tropical Studies Silver Anniversary Symposium", Univ. of Miami, FL;
- 1988– Plenary speaker, Texas Cichlid Association, San Antonio, TX;
- 1986– Tropical Rainforest Symposium, Institute of Latin American Studies, Austin, TX.

Invited Seminars

- 2017– Kamutjonga Inland Fisheries Institute, Namibia; University of Dayton; Hynes Lecture, University of New Brunswick, Fredericton, NB, Canada; seminar, University of New Brunswick, Fredericton, NB, Canada; seminar, University of New Brunswick, Saint John, NB, Canada.
- 2016– Distinguished Speaker Series – University of Alabama at Huntsville; Royal University of Phnom Penh, Cambodia; Sam Houston State University; Annual Brandt Lecture – North Carolina State University
- 2015– Universidade Estadual de Londrina, Brazil; Universidade Estadual de Paraná Oeste, Brazil; Texas A&M University, EEB Program
- 2014– Annual Minshall Lecture – Idaho State University; Dept. of Biology, University of Louisiana at Lafayette; EEB Program, Texas A&M University
- 2013– Texas A&M University-Dept of WFSC; University of Wyoming; Nanchang University, Nanchang, China; Fudan University, Shanghai, China
- 2012– Texas A&M University (ABS seminar series); University of North Texas
- 2011– Cornell University; Virginia Tech University; Texas Tech University; Baylor University (2 talks: the Floyd and Lorene Davidson Lecture plus one departmental seminar)
- 2010– Borlaug Institute at Texas A&M University; Charles Darwin University, Australia; Rivers Institute, Griffith University, Australia; University of Oklahoma
- 2009– Sam Houston State University; University of Toronto
- 2008– University of Nebraska; Texas A&M University-Applied Biodiversity Science Series
- 2007– North Carolina State University
- 2006– Auburn University; University of Illinois; University of Texas at Tyler; Texas A&M University at Galveston; Oklahoma State University
- 2005– University of Central Florida; Universidad Veracruzana; Ohio State University
- 2004– Southern Illinois University
- 2003– University of New Mexico/University of Alabama (NSF-IGERT Symposium); TAMU Department of Rangeland Ecology and Management
- 2002– University of Minnesota; University of Texas at Austin; Colorado State University

- 2001– Sam Houston State University
- 2000– University of South Florida; University of the Western Llanos, Venezuela
- 1999– University of New Mexico; Texas Watershed Working Group (TAMUS-TTVN)
- 1998– University of Miami; Florida International University, Institute of Ecology, University of Georgia; TAMU Department of Rangeland Ecology and Management
- 1997– TAMU Entomology Department
- 1996– TAMU Society for Conservation Biology; Universidade Estadual de Maringá, Brazil; University of Miami
- 1995– Texas Aquaculture Association; University of Texas Marine Science Institute; TAMU International Agriculture Program
- 1994– Tulane University; 2 talks for University Oklahoma
- 1993– 3 talks for Universidade Estadual de Maringá, Brazil; Vanderbilt University
- 1992– University of Texas Marine Science Institute
- 1991– University of Guelph; Texas A&M University; Miami University of Ohio; University of Tennessee; 2 talks for Virginia Tech University; Vanderbilt University; University of Maryland; Bowling Green State University; Philadelphia Academy of Natural Sciences; SUNY- Syracuse
- 1990– Oak Ridge National Lab; University of Wisconsin Milwaukee
- 1989– Arizona State University
- 1987– University of Texas Marine Science Institute
- 1985– Tortuguero National Park, Costa Rica; Organization for Tropical Studies, Costa Rica
- 1983– Organization for Tropical Studies, Costa Rica

Contributed Papers at Professional Meetings

- 2018– “Potential Influence of Exchanges between the Lower Guadalupe River and Oxbow Lakes on Food Web Dynamics” Ann. Meet. TX Ch. Amer. Fish. Soc., College Station, TX (with M. Andrade, C. Arantes, T. Bokhutlo, L. Bower, E. Cunha, F. Keppeler, E. Lopez, K. Mayes, Y. Quintana, C. Robertson & D. Saenz)
- 2018– “Disentangling the role of environmental and spatial processes in the metacommunity structure of stream fishes in a large Neotropical River” Ann. Meet. TX Ch. Amer. Fish. Soc., College Station, TX (with E. Lopez-Delgado & F. Villa-Navarro)
- 2018– “Is trophic level related to body size in Texas fishes?” Ann. Meet. TX Ch. Amer. Fish. Soc., College Station, TX (with F. Keppeler & C. Montaña-Schalk)
- 2018– “Flow-specific floodplain inundation modeling, availability of suitable spawning habitat and recruitment of Alligator Gar in the lower Trinity River” Ann. Meet. TX Ch. Amer. Fish.

- Soc., College Station, TX (with D. Hoeinghaus, J. Jensen, A. Pease, D. Buckmeier, N. Smith, D. Daugherty, T. Hardy & Y. Allen)
- 2018– “Variation in environmental conditions and fish assemblages in sub-lakes of the Poyang Lake floodplain, China” Ann. Meet. TX Ch. Amer. Fish. Soc., College Station, TX (with B. Jin, J. Si, & B. Shao)
- 2018– “Functional diversity of stream fish assemblages in the Eastern Amazon: Oil palm plantations acting as an environmental filter” Ann. Meet. TX Ch. Amer. Fish. Soc., College Station, TX (with T. Begot, N. Benone, and L. Montag)
- 2018– “Evaluating the effects of different land uses on habitat and fish assemblages in amazon rainforest streams” Ann. Meet. TX Ch. Amer. Fish. Soc., College Station, TX (with L. Montag, H. Leão, N. Benone, B. Prudente, T. Begot, N. Torres, D. Hoeinghaus, L. Bower, F. Keppeler, D. Saenz, E. Lopez-Delgado, Y. Quintana & L. Juen)
- 2017– “Wabash River food web before and after an ecosystem transition” Ann. Meet. Soc. Freshwater Sci., Raleigh, NC (with M. Pyron, R. Shields, M. Minder, B. Murry & J. Becker)
- 2017– “Using fish functional traits for individual-based modeling to simulate food-web dynamics in river-floodplain systems” Ann. Meet. Amer. Soc. Ichthyol. Herpetol., Austin, TX (with P. Piana, E. Cunha, A. Agostinho & L. Gomes)
- 2017– “Relationship between Forest Cover and Fish Diversity in the Amazon River” Ann. Meet. Amer. Soc. Ichthyol. Herpetol., Austin, TX (with C. Arantes)
- 2017– “Fish assemblage convergence along environmental gradients and microhabitats in small freshwater streams” Ann. Meet. Amer. Soc. Ichthyol. Herpetol., Austin, TX (with L. Bower)
- 2017– “Is There a Relationship between Fish Cannibalism and Latitude or Species Richness?” Ann. Meet. Amer. Soc. Ichthyol. Herpetol., Austin, TX (with L. Strictar Perreira, F. Keppeler & A. Agostinho)
- 2017– “Effects of Melanocortin Hormones on the Electric Organ Discharge of Two Weakly Electric Fish” Ann. Meet. Amer. Soc. Ichthyol. Herpetol., Austin, TX (with D. Saenz, M. Markham & J. Alves Gomes)
- 2017– “RNA-seq analysis of osmoregulation in an Amazonian cichlid: Deciphering the mechanisms constraining distributions of white and black water fishes” Ann. Meet. Amer. Soc. Ichthyol. Herpetol., Austin, TX (with S. Willis, D. Saenz, G. Wang, C. Hollenbeck, J. Cai & D. Portnoy)
- 2017– “Fish biomass and functional diversity are positively associated with forest cover in the Amazon River floodplains”, International Symposium on Flood-pulse Ecosystems, Siem Reap, Cambodia (with C. Arantes, et al.)
- 2017– “Hydroelectric dams in the tropics: impending threats to biodiversity and fisheries”, Texas Chapter American Fisheries Soc., Corpus Christi.
- 2016– Seasonal changes in the functional community assembly of tropical fishes, Annual Meeting of the Ecological Society of America, Portland, Oregon (with D. Fitzgerald, M. Sabaj and L. Sousa).
- 2014– Weighing interaction strength in stream food webs: Importance of incorporating density

- data, Annual Meeting of the Ecological Society of America, Davis, California (with M. Ceneviva-Bastos and L. Casatti).
- 2014– Fishes and food webs in the Mekong River and its tributaries: a preview of life after new dams are constructed, Annual Meeting of the American Society of Ichthyologists and Herpetologists, Chattanooga, Tennessee (with C. Ou).
- 2014– Influence of deforestation on fisheries in the Amazon floodplains, Annual Meeting of the American Society of Ichthyologists and Herpetologists, Chattanooga, Tennessee (with C. Arantes, M. Petrere, L. Castello, and C. Freitas).
- 2014– Food web structure of the Lower Xingu River: A unique and immediately imperiled ecosystem in the Lower Amazon Basin, Annual Meeting of the American Society of Ichthyologists and Herpetologists, Chattanooga, Tennessee (with D. Fitzgerald, M. Zuluaga, T. Giarrizzo, M. Sabaj, N. Lujan, L. Sousa, L. Rapp, J. Zuanon and J. Lundberg).
- 2014– Trophic ecology of omnivorous fishes in the Yeşilirmak River Basin, Turkey, in relation to seasons and a hydroelectric dam, Annual Meeting of the American Society of Ichthyologists and Herpetologists, Chattanooga, Tennessee (with N. Kaymak, S. Akin, Z. Altuner, F. Polat and T. Dal).
- 2014– Intra-annual flow variation and its impact on larval fish abundance in two Texas Gulf Coast rivers, Annual Meeting of the American Society of Ichthyologists and Herpetologists, Chattanooga, Tennessee (with A. Rodger and C. Krabbenhoft).
- 2014– Trophic plasticity of tropical tadpoles along environmental gradients. Annual Meeting of the American Society of Ichthyologists and Herpetologists, Chattanooga, Tennessee (with C. Schalk, C. Montaña, and L. Fitzgerald).
- 2013– Environmental Flows Under Texas Senate Bill 3: Did We Leave Enough Water for the Fishes? Annual Meeting of the Texas Chapter American Fisheries Society, Conroe, Texas.
- 2013– The Impact of Droughts on Fish Assemblage and Water Quality in the lower Neches River: Implications for Environmental Flow Recommendations, Annual Meeting of the Texas Chapter American Fisheries Society, Conroe, Texas (with R. Pizano)
- 2013– Effects of a Dam on the Structure of the Icefish Species Assemblage in Nanyi Lake, Eastern China, Annual Meeting of the Texas Chapter American Fisheries Society, Conroe, Texas (with Z. Wang)
- 2012– Trophic diversity in the evolution and community assembly of loricariid catfishes. Ann. Meet. Society for the Study of Evolution, Ottawa, Canada (with N. Lujan and J. Armbruster)
- 2012– Diet-morphology correlations in the radiation of South American geophagine cichlids (Perciformes: Cichlidae: Cichlinae). Ann. Meet. Society for the Study of Evolution, Ottawa, Canada (with H. López-Fernández, C. Montaña, and R. Honeycutt)
- 2012– Hydrogen sulfide, bacteria, and fish: a unique food chain supported by chemoautotrophs. Ann. Meet. Texas Chapter Amer. Fisheries Soc., Galveston, TX (with K. Roach)
- 2012– Morphological assembly patterns in tropical and temperate percomorph fishes. Ann. Meet. Texas Chapter Amer. Fisheries Soc., Galveston, TX (with C.G. Montaña)
- 2012– Are successful fish invasions only from species-rich into species-poor communities? Ann.

- Meet. Texas Chapter Amer. Fisheries Soc., Galveston, TX (with D. Fitzgerald, M. Tobler)
- 2012– Drought conditions threaten the lower Neches River and Big Thicket National Preserve. Ann. Meet. Texas Chapter Amer. Fisheries Soc., Galveston, TX (with R. Pizano, N. Lujan)
- 2011– Anthropogenic impacts and longitudinal, elevational effects on the periphyton, macroinvertebrate, and fish communities of an Amazonian headwater. Ann. Meet. Ecological Soc. of Amer., Austin, TX (with D. Jacobsen, N. Lujan, V. Meza V., K. Roach, V. Rimarachin C., and J. Arana M.)
- 2011– Habitat-associated morphology of cichlid and centrarchid species assemblages: Tropical temperate convergence in percamorph fishes? Ann. Meet. Ecological Soc. of Amer., Austin, TX (with C. Montaña)
- 2011– Functional trait diversity and trait-environment relationships in Central Texas stream-fish assemblages: Implications for biomonitoring. Ann. Meet. Ecological Soc. of Amer., Austin, TX (with A.A. Pease, J.M. Taylor, and R.S. King)
- 2011– Using stomach contents, stable isotopes and morphometrics to quantify resource partitioning among fruit-eating fishes in Amazon floodplain habitats. Ann. Meet. Ecological Soc. of Amer., Austin, TX (with S.B. Correa)
- 2011– Food web structure in floodplain habitats of the Oueme River, Benin, West Africa. Ann. Meet. Ecological Soc. of Amer., Austin, TX (with A.T. Jackson and A Adite)
- 2011– Do wastewater treatment plants cause abnormal effects in mosquitofish in the Houston bayous? Ann. Meet. Ecological Soc. of Amer., Austin, TX (with C.D. Watkins and M. Mora)
- 2011– Flooding drives one-way connectivity of aquatic food webs across spatial and temporal scales in a subtropical coastal lagoon. Ann. Meet. Ecological Soc. of Amer., Austin, TX (with A.M. Garcia, D.J. Hoeinghaus, M. Claudino, R. Bastos, F. Correa, S. Huckembeck, J. Vieira, D. Loebmann, P. Abreu, and C. Ducatti)
- 2011– Never enough data, never enough time: theoretical and practical sticking points in determining environmental flows. Ann. Meet. Texas Chapter Amer. Fisheries Soc., San Marcos
- 2011– The influence of hydrology, light penetrance, and nutrients on production sources for fishes in six floodplain rivers. Ann. Meet. Texas Chapter Amer. Fisheries Soc., San Marcos (with K.A. Roach)
- 2011– Using stable isotopes to reveal food web structures in the Mekong River and its tributaries. Ann. Meet. Texas Chapter Amer. Fisheries Soc., San Marcos (with C. Ou)
- 2011– Stable isotope analysis reveals food web structure and watershed impacts along the fluvial gradient of a Mesoamerican coastal river. Ann. Meet. Texas Chapter Amer. Fisheries Soc., San Marcos (with D.J. Hoeinghaus, A.A. Pease, P.C. Esselman, R.L. Honeycutt, D. Gbanaador, E. Carrera, and J. Payne)
- 2011– Texas mussels in national museums: a survey of biodiversity collections for records of

- Texas freshwater mussels. Ann. Meet. Texas Chapter Amer. Fisheries Soc., San Marcos (with N. Lujan, J. Groce, and T. Snelgrove)
- 2011–Ecomorphological correlates in temperate floodplain centrarchid fishes. Ann. Meet. Texas Chapter Amer. Fisheries Soc., San Marcos (with C.G. Montaña)
- 2011– Inferring trophic resource partitioning among Amazonian floodplain serrasalmid fishes from $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ stable isotopes, stomach contents and ecomorphological data. Ann. Meet. Texas Chapter Amer. Fisheries Soc., San Marcos (with S.B. Correa)
- 2011– Trophic resource partitioning among frugivorous fishes in floodplain forests of the Colombian Amazon. XI Colombian Meeting of Ichthyology. Universidad del Tolima and Asociación Colombiana de Ictiólogos. Ibagué, Tolima, Colombia (with S.B. Correa)
- 2010– Do wastewater treatment plants cause abnormal effects in mosquitofish? Annual Meeting of the Society for Ecotoxicology, Portland Oregon (with C. Watkins, M. Mora)
- 2010– An ecological study of mercury bioaccumulation in the Madre de Dios watershed, Peru. Ann. Meet. North American Benthological Society, Santa Fe, New Mexico (with K. Roach, N. Jacobsen, D. Brightsmith, C. Fiorello)
- 2010– Seasonality and dietary patterns in Neotropical piscivores. Ann. Meet. Amer. Soc. Ichthyologists and Herpetologists, Providence, Rhode Island (with C. Montaña, C. Layman)
- 2008– Comparative ecology of two *Crenicichla* species (Teleostei: Cichlidae) in a Venezuelan Neotropical floodplain river. Ann. Meet. Amer. Soc. Ichthyologists and Herpetologists, Montreal, Canada (with C. Montaña)
- 2007– Evaluation of conceptual models of fish reproduction in floodplain rivers: A life history-based approach. Ann. Meet. Ecological Soc. Am., San Jose, California (with S. Zeug)
- 2007– The Rio Casiquiare removed the physical barrier between the Orinoco and Amazon Basins and replaced it with an environmental filter. Ann. Meet. Am. Soc. Ichthyol. Herpetol., St. Louis, Missouri (with H. Lopez, T. Taphorn, L. Nico, A. Barbarino)
- 2007– Experimental test for determining the feeding efficiency of digging/sifting Neotropical cichlids. Ann. Meet. Am. Soc. Ichthyol. Herpetol., St. Louis, Missouri (with C. Watkins, H. Lopez, S. Willis)
- 2007– Divergence times of Neotropical cichlids and some implications for South American freshwater fish biogeography. Ann. Meet. Am. Soc. Ichthyol. Herpetol., St. Louis, Missouri (with H. Lopez, R. Honeycutt)
- 2007– A multilocus phylogeny of the Neotropical Cichlidae. Ann. Meet. Am. Soc. Ichthyol. Herpetol., St. Louis, Missouri (with H. Lopez, R. Honeycutt, C. Crane)
- 2007– Niche overlap and ecomorphological disparity in Mesoamerican cichlid communities. Ann. Meet. Am. Soc. Ichthyol. Herpetol., St. Louis, Missouri (with A. Pease, J. Cochran, H. Lopez)

- 2007– Oxbow lakes hydrologic and biotic connectivity with the lower Brazos River. Ann. Meet. Texas Academy of Science (with R. Mathews, J. Furnans, S. Zeug, T. Bonner, C. Williams, T. Osting)
- 2006– Comparison of dietary and isotope-based food web structure of four Central American coastal streams. Ann. Meet. Am. Soc. Ichthyol. Herpetol., New Orleans, Louisiana (with S. Zeug, C. Roberston, C. Saenz, B. Winemiller)
- 2006– Habitat attributes influence ontogenetic diet shifts of gizzard shad (*Dorosoma cepedianum*) in a large floodplain river. Ann. Meet. Am. Soc. Ichthyol. Herpetol., New Orleans, Louisiana (with S. Zeug, D. Peretti)
- 2006– Structure of diverse tropical river food webs: Landscape determinants, introduced species and ecological efficiency of exploited systems. Ann. Meet. Am. Soc. Ichthyol. Herpetol., New Orleans, Louisiana (with D. Hoeinghaus, A. Agostinho)
- 2006– Resource use among sympatric gar species (Lepisosteidae) in the middle Brazos River and associated oxbows. Ann. Meet. Am. Soc. Ichthyol. Herpetol., New Orleans, Louisiana (with C. Robertson, S. Zeug)
- 2006– Snake species richness in relation to habitat in the post oak savannah of east central Texas. Ann. Meet. Am. Soc. Ichthyol. Herpetol., New Orleans, Louisiana (with J. Putegnat, L. Fitzgerald)
- 2006– Variation in food web structure along the longitudinal gradient of the Bladen-Monkey River, Belize. Ann. Meet. Am. Soc. Ichthyol. Herpetol., New Orleans, Louisiana (with A. Pease, E. Carrera, D. Gbaanador, J. Payne, J. Putegnat, G. Tamez, R. Honeycutt, P. Esselman, W. Heyman)
- 2006– Phenotype-environment correlations in the putative adaptive radiation of South American geophagine cichlids (Perciformes, Labroidei). Ann. Meet. Am. Soc. Ichthyol. Herpetol., New Orleans, Louisiana (with H. Lopez, R. Honeycutt, A. Pease)
- 2006– Response of Brazos River fish assemblages to hydrological connectivity. Ann. Meet. S. Div. Amer. Fisheries Soc., San Antonio, TX (with S. Zeug, R. Mathews, T. Osting)
- 2005– Seasonal fish effects on benthic ecology of a neotropical floodplain river. Ann. Meet. Am. Soc. Ichthyol. Herpetol., Tampa, FL (with J. Cotner, D. Roelke, J.V. Montoya)
- 2004– Seasonal variability in benthic and water column productivity in a Venezuelan llanos river. Ann. Meet. Ecol. Soc. Amer., Portland, OR (with J. Cotner, D. Roelke, J.V. Montoya)
- 2004– Experimental demonstrations of seasonal fish effects on benthic ecology of a neotropical floodplain river. Ann. Meet. Ecol. Soc. Amer., Portland, OR (with D. Roelke, J.V. Montoya, C. Layman, J. Cotner)
- 2004– Seasonal variation of productivity and respiration in a tropical blackwater river: The role of allochthonous organic matter derived from savannah and gallery forest, and inorganic nutrients. Ann. Meet. Ecol. Soc. Amer., Portland, OR (with D. Roelke, C. DelCastillo, J.V. Montoya, S. Davis, J. Cotner)

- 2004– Hydrological seasonality and spatio-temporal dynamics of physico-chemical variables of a tropical floodplain river. Ann. Meet. Ecol. Soc. Amer., Portland, OR (with J.V. Montoya, D. Roelke, J. Cotner)
- 2004– From short to long: factors influencing food chain length in a species-rich tropical floodplain river. Ann. Meet. Ecol. Soc. Amer., Portland, OR (with D.A. Arrington, C. Layman)
- 2004– Body size and seasonal hydrology drive predator-prey dynamics in a complex river food web. Ann. Meet. Ecol. Soc. Amer., Portland, OR (with C. Layman, D.A. Arrington, D. Jepsen, C. Montaña)
- 2004– Predicting the Ecological Response to Increased Base Flows in Ephemeral Texas Streams: Results from Field Investigations. Water Resource Conference, Portland, OR (with N. Wilkins, R. Lacewell, R. Griffiths)
- 2004– Association between brush cover and stream fish assemblages in the Pedernales River Basin, Texas: Preliminary findings. Ann. Meet. Amer. Soc. Ichthyologists & Herpetologists, Norman, OK (with J. Birnbaum)
- 2004– Seasonal ecological dynamics of oxbow lakes of a temperate floodplain river. Ann. Meet. Amer. Soc. Ichthyologists & Herpetologists, Norman, OK (with S. Zeug, S. Tarim)
- 2004– Comparative ecology of gars species (Lepisosteidae) in the Brazos River and associated oxbow lakes. Ann. Meet. Texas Chapter Amer. Fisheries Soc., College Station, TX (with C. Robertson, S. Zueg)
- 2004– Status of *Dionda diaboli* and report of established populations of exotic fish species in lower San Felipe Creek, Val Verde County, Texas. Ann. Meet. Texas Chapter Amer. Fisheries Soc., College Station, TX (with H. Lopez)
- 2004– Association between brush cover and stream fish assemblages in the Pedernales River Basin, Texas: Preliminary findings. Ann. Meet. Texas Chapter Amer. Fisheries Soc., College Station, TX (with J. Birnbaum and D. Hoeinghaus)
- 2004– Seasonal ecological dynamics of oxbow lakes of a temperate floodplain river. Ann. Meet. Texas Chapter Amer. Fisheries Soc., College Station, TX (with S. Zeug, S. Tarim)
- 2003– Response of streams to variation in vegetation in the Pedernales watershed. Ann. Meet. Amer. Geophysical Union, San Francisco, CA (with L. Shen, B. Wilcox, C. Munster, N. Wilkins)
- 2003– Fish assemblages of the Casiquaire, zone of biotic interchange between Upper Orinoco and Rio Negro. Ann. Meet. Amer. Soc. Ichthyologists & Herpetologists, Manaus, Brazil (with H. Lopez, D. Arrington, D. Taphorn, L. Nico, A. Barbarino)
- 2003– Local vs. regional factors: a meta-analysis of Texas stream fish assemblages. Ann. Meet. Amer. Soc. Ichthyologists & Herpetologists, Manaus, Brazil (with J. Birnbaum, D. Hoeinghaus)

- 2003– Spatiotemporal variation in fish assemblage structure in tropical floodplain creeks. Ann. Meet. Amer. Soc. Ichthyologists & Herpetologists, Manaus, Brazil (with D. Hoeninghaus, C. Layman, D. Arrington)
- 2003– Habitat complexity and fish morphological diversity in a Neotropical floodplain river. Ann. Meet. Amer. Soc. Ichthyologists & Herpetologists, Manaus, Brazil (with S. Willis, H. Lopez)
- 2003– Phenotypic characters predict fish assemblage differences among netted and un-netted lagoons of a speciose tropical river. Ann. Meet. Ecol. Soc. Amer., Savanaha, Georgia (with C.A. Layman)
- 2003– Local vs. regional factors: a meta-analysis of Texas stream fish assemblages. Ann. Meet. Soc. Southwest. Nat., Norman, Oklahoma (with J. Birnbaum, D. Hoeninghaus)
- 2003– Reconciliation of neutral and deterministic models of community assembly in the Cinaruco River, Venezuela. Ann. Meet. N. Amer. Benthological Soc. (with D.A. Arrington, C. A. Layman)
- 2003– Using small-scale exclusion experiments to predict impacts of fishing in a tropical floodplain river fish community. 2nd Large Rivers Symposium, Phnom Penh, Cambodia (with C. Layman)
- 2003– Organization and maintenance of biological diversity in tropical floodplain rivers. 2nd Large Rivers Symposium, Phnom Penh, Cambodia (with D.A. Arrington)
- 2002– Diel variation in fish assemblage structure on river sandbanks of a Neotropical blackwater river. Ann. Meet. Amer. Soc. Ichthyol. Herpetol. (with D.A. Arrington)
- 2002– Predation effects on littoral fish assemblage of a Neotropical blackwater river. Ann. Meet. Ecological Soc. Amer. (with C. Layman)
- 2001– Foodweb structure of tropical rivers with different biogeochemical attributes. Ann Meet. Ecological Soc. Amer. (with D. Jepsen)
- 2001– Assembly of fishes and macroinvertebrates in a large neotropical floodplain river: The role of structural habitat complexity. Ann Meet. Ecological Soc. Amer. (with D.A. Arrington)
- 2001– Taxonomy and new records of pike characins (*Acestrorhynchus* spp.) from Venezuela. Ann. Meet. Amer. Soc. Ichthyologists & Herpetologists (with H. Lopez)
- 2001– Temporal variation of food web structure in a coastal wetland fringing Matagorda Bay, Texas. Ann. Meet. Amer. Soc. Ichthyologists & Herpetologists (with S. Akin)
- 2000– Food web structure of South American rivers with different biogeochemistry revealed by stable isotopes. Ann. Meet. Amer. Soc. Ichthyologists & Herpetologists (with D. Jepsen)
- 2000– Habitat structure and tropical fish assemblages: a test of the random associations hypothesis. Ann. Meet. Amer. Soc. Ichthyologists & Herpetologists (with D.A. Arrington)

- 2000– Spatial and temporal variation in the food web of Mad Island Marsh, Matagorda Bay. Ann. Meet. Soc. S.W. Naturalists (with S. Akin)
- 1999– Spatial variation in fish assemblages of Brazos River oxbow lakes. Ann. Meet. Amer. Soc. Ichthyologists & Herpetologists (with J. Cotner & S. Tarim)
- 1999– A review of Venezuelan species of *Hypophthalmus*. Ann. Meet. Amer. Soc. Ichthyologists & Herpetologists (with H. Lopez)
- 1999– The effects of environmental parameters on the distribution and abundance of gulf menhaden, *Brevoortia patronus*, in Mad Island Marsh, Matagorda Bay, Texas. Ann. Meet. Amer. Soc. Ichthyologists & Herpetologists (with S. Akin)
- 1998– Reproductive ecology of the tarpon snook (*Centropomus pectinatus*) in a tropical estuary with evidence of protandry. Symposium on Tropical Fish Biology, Fisheries Soc. British Isles (with B. Ponwith & W. Neill)
- 1998– Stable isotopes for comparison of sources of production in four tropical rivers. Western Division American Fisheries Society (coauthored with D. Jepsen)
- 1998– Influence of exotic smallmouth bass on fish assemblages of the Devils River, Texas. Ann. Meet. Southeastern Society of Biologists (co-authored with M. Robertson)
- 1997–Conservation of aquatic diversity of river floodplains: An intermediate disturbance perspective. Symposium on Conservation of Large River Floodplains, Ann. Meet. Soc. Cons. Biol. (with D.B. Jepsen)
- 1996–Effects of sportfish management on desert fishes in Texas, Ann. Meet. AFS Western Div., Eugene, OR.
- 1996–Spatial and temporal variation in fish assemblage structure at Village Creek. Big Thicket Science Conference, Beaumont, TX (co-authored with L. Moriarty)
- 1996–Fish population and community structure in Brazos River oxbow lakes. Joint Ann. Meet. Texas and Oklahoma Chapters Amer. Fish. Soc. (with S. Tarim, J.B. Cotner, D.E. Shormann)
- 1996– Fish Population and Community Structure of Oxbow Lakes of the Brazos River. Ann. Meet. Amer. Soc. Ichthyologists & Herpetologists (with S. Tarim)
- 1996– Fish populations and community structure in oxbow lakes of the Brazos River floodplain. Ann. Meet. Southwestern Soc. of Naturalists (with S. Tarim)
- 1995– The influence of fish life histories and natural disturbance on food web structure in oxbows of the Brazos River. Ann. Meet. Amer. Fish. Soc. (with J.B. Cotner, D.E. Shormann)
- 1995– Fish effects on phytoplankton and zooplankton communities in Brazos River oxbows. Ann. Meet. Amer. Fish. Soc. (with J.B. Cotner, D.E. Shormann)
- 1995– Texas fish assemblages following three decades of environmental change. Ann. Meet. Am. Soc. Ichthyologists & Herpetologists (with A.A. Anderson, C. Hubbs, R.J. Edwards)

- 1995– The Phantom Lake Springs refuge for endangered desert fishes. Ann. Meet. Texas Chapter Amer. Fish. Soc. (with A.A. Anderson)
- 1995–Identifying food web interactions in Brazos River oxbow lakes. Ann. Meet. Amer. Soc. Limnol. & Oceanogr. (with D.E. Shormann, J.B. Cotner)
- 1995– Life history theory and responses of fish populations to perturbations. Ann. Meet. Soc. for Conservation Biology
- 1995– Phantom Lake Spring refuge for two endangered fishes. Ann. Meet. Soc. for Conservation Biology (with A.A. Anderson)
- 1995– Fish Communities of Lake Nokue, Benin, West Africa. Ann. Meet. Am. Soc. Ichthyologists & Herpetologists (with A. Adite)
- 1994– Life history, carrying capacity and fisheries management. Ann. Meet. Texas Chapt. Amer. Fish. Soc.
- 1994– Ecology of catfishes of the Upper Zambezi River floodplain. Ann. Meet. Am. Soc. Ichthyologists & Herpetologists (with L.C. Kelso Winemiller)
- 1994– Texas fish assemblages following three decades of environmental change. Ann. Meet. Am. Soc. Ichthyologists & Herpetologists (with A.A. Anderson, C. Hubbs, R.J. Edwards)
- 1994– Fish assemblage-habitat relationships in a Texas blackwater stream. Ann. Meet. Am. Soc. Ichthyologists & Herpetologists (with L.J. Moriarty)
- 1993– Comparative ecology of pavon in Southern Venezuela: Ann. Meet. Am. Soc. Ichthyologists & Herpetologists (with A. Barbarino, D.C. Taphorn)
- 1993– Convergence in a specialized foraging mode: tube-snouted weakly electric fishes. Ann. Meet. Am. Soc. Ichthyologists & Herpetologists (with C. Marrero)
- 1993– Comparative ecology of African pike and tigerfish in the Upper Zambezi River floodplain. Ann. Meet. Am. Soc. Ichthyologists & Herpetologists (with L. Kelso Winemiller)
- 1993– Agonistic behaviors exhibited by juvenile smallmouth bass in laboratory and field conditions. Ann. Conf. SE Fish & Wildl. Assoc. (with M.J. Sabo, E.J. Pert)
- 1992– Ecological and morphological diversification in riverine cichlid fishes. Ann. Meet. Am. Soc. Ichthyologists & Herpetologists (with L.C. Kelso Winemiller, A. Brenkert)
- 1991– Life history theory as a comparative framework for the individual-based approach to fish population dynamics. Ann. Meet. Am. Fisheries Society
- 1991– Life history strategies among North American freshwater and marine fishes: theoretical implications of a multivariate analysis. Ann. Meet. Am. Soc. Ichthyologists & Herpetologists
- 1990– A new species of piscivorous cichlid fish (genus *Serranochromis*) from the Upper

- Zambezi floodplain. Ann. Meet. Am. Soc. Ichthyologists & Herpetologists
- 1988– Seasonal and inter-site variation in food web properties among neotropical fish assemblages. Ann. Meet. Am. Soc. Ichthyologists & Herpetologists
- 1987– A reappraisal of life history strategies: patterns among South American fishes. 63rd Ann. Meet. SW & Rocky Mt. Div. Am. Assoc. for the Advancement of Science
- 1987– A reappraisal of life history strategies: Patterns among South American fishes. Ann. Meet. Am. Soc. Ichthyologists & Herpetologists
- 1982– Foraging behavior and competition between largemouth and smallmouth bass (*Micropterus*). Ann. Meet. Am. Soc. Ichthyologists & Herpetologists
- 1981– Comparative ethology of largemouth and smallmouth black bass (*Micropterus*). Ann. Meet. Animal Behavior Soc.
- 1980– Effects of interspecific competition on predatory behavior of largemouth (*M. salmoides*) and smallmouth black bass (*M. dolomieu*). Ann. Meet. Animal Behavior Soc.
- 1980– Smallmouth bass nesting in Indian Creek, Ohio. 42nd Midwest Fish & Wildl. Conf. (with D.H. Taylor)

Teaching Experience

Texas A&M University:

- REN205 (Fundamentals of Ecology-undergraduate, 3 credits)- S1993, S1994, S1995, S1996, S1997, S1998, S1999, S2000, S2001, S2002, S2003, S2004, S2005, S2006, S2007, S2008, S2009, S2010, S2011, S2012, S2013
- WFSC400 (Fisheries Survey- upper level undergraduate, 3 credits)- Su1993, Su1994
- WFSC484/5 (Internship/Directed Independent Studies- undergraduate, variable credits)- Su1994, F1994, S1995, S1996, Su1996, Su1997, S1998, S1999, F2000, F2001, S2002, S2003, Su2003, S2004, Su2004, F2005, S2006, Su2006, F2006, S2007, Su2007, F2007, S2008, Su2008, F2008, S2009, F2009, Su2010, Su2011, F2011, S2012, Su2012, F2012, Su2013, Su2014, F2014, S2015, F2015, S2016, Su2016, F2016, S2017
- WFSC/BIOL462 (Amazon River Tropical Biology- undergraduate course, 3 credits, includes class sessions plus a 10-day fieldtrip to the central Amazon River and Rio Negro from Manaus, Brazil)- S2015, S2016, S2017
- WFSC605 (Community Ecology, graduate, 3 credits)- F2011, F2012, F2013, F2014, F2015, F2016, F2017
- WFSC/ENTO624 (Dynamics of Populations- graduate, 4 credits)- F1992, F1993, F1994, F1995, F1996, F1997, F1998, F1999, F2001, F2002, F2003, F2004, F2005, F2006, F2007, F2008, F2009

WFSC681 (Seminar in Ecology- graduate, 1 credit)- F1992, S1993, F1993, S1994, F1995, F1997, S1998, F1998, S1999, F1999, F2000, S2001, F2001, F2003, S2004, S2005, S2006, S2007, S2008, S2009, F2010, F2011, F2012, F2013, F2014, F2015, F2016

WFSC681 (Seminar in Community Ecology- graduate, 1 credit)- F2010

WFSC689 (Conservation Biology- graduate- team taught, 3 credits)- F1998, F1999, F2000, F2001

WFSC685 (Directed Independent Studies- graduate, variable credits)- F1994, F1997, Su1998, S2000, Su2000, F2000, S2001, F2001, F2002, F2003, F2004, S2005, F2005, S2006, Su2006, F2006, S2007, S2008, F2008, F2010, Su2010, Su 2012, F2013, F2014, F2015

EEBL602 (Population Ecology- graduate- 1 credit)- F2016, F2017

EEBL603 (Community Ecology- graduate- team taught, 1 credit)- F2015

Inland Fisheries Research and Development Institute, Phnom Penh, Cambodia:
Fisheries Techniques (graduate & professional, 14 registrants) S2017

Universidad Central de Costa Rica, San Jose, Costa Rica:
Community Ecology (graduate & professional, 25 registrants) F2015

Congreso Colombiano de Ictiología, Leticia, Colombia:
Food Web Ecology (graduate & professional, 20 registrants) S2015

Universidade Estadual de Maringá, Brazil:
Food Web Ecology (graduate, 30 registrants) S2014
Metacommunities and Assembly Rules (graduate, 29 registrants) Su2015

Brazilian Ichthyological Congress, Invited Graduate Short Course: Fish Population and Community Dynamics (65 paid registrants) S1999

University of the Western Llanos, Venezuela, Graduate Program in Renewable Natural Resources, Visiting Fulbright Lecturer:
Advanced Ecology (graduate course)- Su1997
Population Dynamics (graduate course)- Su1997

University of Oklahoma, Visiting Faculty:
ZOO4970/5970 (Food Webs and Aquatic Systems- graduate) Su1994

University of Texas, Lecturer:
BIO304 (Population and Environmental Biology-majors)- F1987, S1988, F1988
ZOO369 (Basic Ecology-upper division majors)- F1990
BIO301L (Biology: Microbes to Man- nonmajors)- S1990

University of Texas, Assistant Instructor: Population Biology, Evolutionary Biology, General Biology Labs, Anatomy Labs

Miami University, Teaching Assistant: General Zoology/Biology Labs, Population Ecology Labs, Animal Behavior Labs

Postdoctoral Research Associates Advised

Hernan López-Fernández, Texas A&M Univ. (2006-2007) He currently is Curator of Fishes at the Royal Ontario Museum, Toronto, Canada.

Michael Tobler, Univ. of Zürich (2008-2010) He currently is Assistant Professor at Kansas State University.

John Baker, Univ. of Florida (2008-2015) He currently is Project Specialist at Texas A&M University.

David Hoeinghaus, Texas A&M Univ. (2009) He currently is Associate Professor at the University of North Texas.

Nathan Lujan, Auburn Univ. (2009-2012) He currently is Postdoctoral Research Associate at the Royal Ontario Museum with affiliation with Texas A&M (K. Winemiller co-advising)

Eduardo R. Cunha, Texas A&M Univ. (2018-present)

Graduate Students Advised (17 MSc, 25 PhD)

Nora E. Valdes (1992-1995) M.Sc. May 1995; Thesis– "Composition, Structure, and Habitat Associations of Fish Assemblages of the Dolan Falls Reserve"; First author on 1 peer-reviewed publication; Currently a scientist/administrator with CEDESOL (Mexican Federal Natural Resource Agency).

Loren J. Moriarty (1992-1995) M.Sc. August 1995; Thesis– "Spatial and Temporal Variation in Fish Assemblage Structure at Village Creek"; Regent's Fellow, 1992-1993; First author on 1 peer-reviewed publication; formerly a lab technician at Purdue University; currently Lecturer at Salisbury University, Maryland.

Alphonse Adite (1993-1995) M.Sc. December 1995; Thesis– "Fisheries Ecological Survey of Inland Aquatic Habitats of Benin"; Advanced Training in Leadership for Africans Fellowship, 1992-1995; Conservation Biology Scholarship, 1993-1995; Phi Beta Delta Honor Society for International Scholars, 1994; First author on 3 and second author on 1 peer-reviewed publications; First author of 2 technical reports; Presented papers at several professional conferences; President of CEPRAEDES, a non-governmental organization for environmental conservation in Africa, Currently a PhD candidate at Université Abomey-Calavi, Benin.

David B. Jepsen (1993-1995) M.Sc. December 1995; Thesis– "Seasonality and Midscale Spatial Effects on *Cichla* Ecology and Fish Species Diversity in a Neotropical Floodplain River"; TAMU Jordan International Study Fellowship, 1995; Author of 2 technical reports; Vice-

president of TAMU-American Fisheries Society, 1994-1995; Presented papers at 4 professional conferences.

David B. Jepsen - continued graduate study for a Ph.D. under my advisorship (1995-1999); researching the inputs to production and biomass flow in floodplain rivers using stable isotopes; Jordan Fellow 1998; Tom Slick Fellow 1998-99; Presented papers at several professional conferences; 3 peer-reviewed first-authored and 2 co-authored journal articles; 1999 TAMU-WFSC Outstanding PhD Student of the Year Award; Formerly Research Scientist, Fishery Coop Unit, Oregon State University; Currently Fisheries Manager, Oregon Department of Natural Resources.

Tamara L. McGuire (1993-1995) M.Sc. December 1995; Thesis– "Site Fidelity and Habitat Affiliation of the Tonina, *Inia geoffrensis*, in the Cinaruco River, Venezuela"; Willie May Harris Fellow, 1993-1994; First-author of 1 technical report; Presented papers at 3 professional conferences; First author of 2 journal articles; She continued study for a PhD at TAMU under Dr. Bernd Wursig.

John D. Williams (1993-1995) M.Sc. December 1995; Thesis– "Comparative Ecology of Large Piscivorous Fishes in Guri Reservoir, Venezuela, with Notes on Fish Community Structure"; TAMU Travel Abroad Scholarship, 1993; Presented papers at 2 professional conferences; First author of 1 journal article; Formerly a researcher working on marine food webs for the Prince William Sound Science Center in Alaska; K-12 Education Coordinator at the University of Texas Marine Science Institute, Port Aransas.

Christopher C. Peterson (1995-1997) M.Sc. 1997; Thesis– "Effects of Seasonal Hydrology on Fish Food Webs in Clear-water Rivers in Venezuela"; Regent's Fellow, 1995-1996; First-author of 2 peer-reviewed publications; Currently, he is a physician (M.D.) practicing in San Angelo, TX.

Allison A. Anderson (1993-1999) Ph.D.; Dissertation– "Ecological Response to Removal of a Natural Disturbance Regime: the Impacts of a Flood-Control Dam on Its Tailwater Fish Assemblage"; Regent's Fellow, 1993-1994; EPRI Fellow, 1994-1997; Chair of WFSC Graduate Enhancement Fund Committee, 1994-1995; First-author of 3 peer reviewed publications; Presented papers at several professional conferences; 1998 TAMU-WFSC Outstanding PhD Student of the Year Award; She elected to leave the program in 1999, worked in the computer tech industry in Minneapolis, MN; deceased 2017.

Soner Tarim (1994-2002) Ph.D.; Dissertation– "Interactions between White Crappie, Gizzard Shad, and Threadfin Shad on a Heterogeneous Floodplain Landscape"; Presented papers at 2 professional meetings; Faculty member of the Ataturk University, Turkey; Coauthor of one peer-reviewed journal article; He is currently CEO of Harmony Science Academy charter schools.

Senol Akin (1997-2001) Ph.D.; Received multi-year fellowship for graduate study from the Turkish government; Graduate Student Scholarship Texas Chapter American Fisheries Society 2001; researched seasonal variation in aquatic food webs along salinity gradients in a Texas coastal marsh (TNC- Mad Island Marsh); Presented 4 papers at professional meetings; Author/coauthor of 4 peer-reviewed journal articles; Faculty member at Houston

Tilletson College, Austin, TX (2001-2002). He currently is Associate Professor and Chair of the Department of Fisheries and Aquaculture, Gaziosmanpasa University, Turkey.

Michael S. Robertson (1997-1999) M.Sc.; TAMU Former Association of Students Fellowship, 1997; co-PI on grant from The Nature Conservancy of Texas; research the influence of an exotic piscivore on fish assemblage of the Devils River, Texas; Graduate Student Scholarship- Texas Chapter American Fisheries Society; Presented papers at 2 professional meetings; First author on 2 peer-reviewed publications; He currently works for BioWest, Inc, an environmental consulting firm in Austin, TX.

Gregory W. Stunz (co-advisor with T. Minello, 1997-1999) Ph.D.; GCCA fellow, 1996; co-PI Texas Sea Grant project (P. Levin, PI) to fund dissertation research; Dissertation– "Causes and Consequences of Recruitment Patterns in Newly Settled Red Drum (*Sciaenops ocellatus*)"; As a grad student- Presented papers at 3 professional meetings; First author on 4 peer-reviewed publications; He worked for 3 years for the National Marine Fisheries Service, Galveston, and currently is Endowed Professor of Marine Biology at the Harte Institute, Texas A&M University at Corpus Christi.

Bonnie J. Ponwith (co-advisor with W. Neill, 1997-1999) Ph.D.; NSEP Fellowship, Jordan Fellowship, Sea Grant Intern with NOAA/NMFS in Washington, DC; Dissertation: "Assemblage Structure, Trophic Ecology and Life History of Fishes in a Tropical Estuary"; Author/coauthor on 2 peer-reviewed publications; Currently employed at the Office for Science and Technology, NOAA/NMFS, Washington, DC.

D. Albrey Arrington (1997-2002) Ph.D.; Aquatic ecologist formerly working for the South Florida Water Management District on restoration of the Kissimee River; Jordan Fellow 1998; Graduate Student Scholarship Texas Chapter American Fisheries Society 2000; NIA Best Student Paper Award 2000; Tom Slick Graduate Fellowship 2001; WFSC PhD Student Award 2001; NSF Doctoral Dissertation Improvement Grant 2001; research on the effects of food web structure and seasonality on fish community and ecosystem dynamics in a tropical floodplain river; Author/coauthor on 15 peer-reviewed publications; Assistant Professor at the University of Alabama (2002-2004); Director of the Perry Research Institute, Jupiter, FL (2005-2006). He currently is Director of the Loxahatchee River Water Conservation District, Jupiter, FL.

Hernán López Fernández (1998-2004) PhD.; Researched evolutionary ecology of geophagine cichlid fishes; Received travel grant from American Museum of Natural History; Research Grant from the American Cichlid Association; Presented 10 papers at a professional meetings; Author/coauthor on 9 peer-reviewed publications; NIA Best Student Paper Award 2003, 2004; Outstanding PhD Student in the Department of Wildlife and Fisheries Sciences, 2004; Postdoc researcher University of Texas, 2005-2006; Postdoc researcher Texas A&M University, 2007-2008; Curator of Fishes at the Royal Ontario Museum, Canada 2008-2017; Currently Associate Professor and Curator of Ichthyology at the University of Michigan.

Craig A. Layman (1999-2004) Ph.D.; TAMU Regents Fellow, 1999-2001; EPA STAR Fellowship, 2000-2003; Tom Slick Graduate Fellowship 2002; Researched determinants of community structure and food web dynamics of a tropical floodplain river; Presented 7 papers at a professional meetings; Author/coauthor on 18 peer-reviewed publications; Best

paper award TAMU student research week symposium 2002; Fulbright Fellowship (Venezuela) 2003; Vice-Chancellors's award for graduate student research 2004; NSF Doctoral Dissertation Improvement Grant 2004. He currently is Associate Professor at North Carolina State University.

Archis Grubh (1999-2002) M.Sc.; Researched community ecology of fishes and aquatic food web associated with floodplain wetlands of the Western Ghats in southwestern India; First author on 1 peer-reviewed publication; He currently is employed as a biologist with the River Studies Program, Texas Parks and Wildlife Department, San Marcos, Texas.

Jose Vicente Montoya (co-advisor with D. Roelke, 2001-2008) Ph.D.; Researching benthic ecology of a Neotropical floodplain river; First author on 2 and coauthor on 3 peer-reviewed publications; Presented papers at several international conferences. He currently is an Associate Research Professor at the Instituto Venezolano de Ciencias.

Jenny Peet (Birnbaum) (2002-2005) M.Sc.; TAMU Merit Fellow, 2002-2003; Researched river/stream fish community ecology and responses of populations to environmental change; Presented papers at 3 scientific meetings; First author on 1 and coauthor on 1 peer-reviewed publications. She currently is a staff scientist with the Massachusetts Department of Environmental Protection.

David Hoeinghaus (2002-2006) Ph.D.; Researching community and food web ecology of tropical river fishes in Brazil; Presented papers at 4 scientific meetings; 3 invited presentations; Best paper at TAMU student research week symposium, Best paper at TAMU-WFSC student symposium (twice); Received grants from Society of Wetland Scientists (twice), American Society of Ichthyologists and Herpetologists, TAMU Office of Graduate Studies, Texas Water Resources Institute; First author on 9 peer-reviewed publications; Postdoc researcher at Kansas State University, 2007-2009; Postdoc researcher at Texas A&M University 2009; Currently an Associate Professor at the University of North Texas, Denton.

Steven Zeug (2003-2007) Ph.D.; TAMU Merit Fellow, 2003-2004; Tom Slick Fellowship, 2006-2007; Researching the response of fish populations with divergent life history strategies to hydrological variation in a Texas floodplain river; Best paper award at student research symposium; Presented papers at 3 scientific meetings; First author of 4 and coauthor of 3 peer-reviewed publications; Postdoc researcher at the University of California-Santa Barbara; Currently a fisheries biologist with Cramer Fish Sciences, Auburn, CA.

Clint Robertson (2005-2007) M.Sc.; TAMU Graduate Diversity Fellowship, 2005-2007; Researching species assemblage structure in natural and restored tidal marshes on the Texas Gulf coast, Presented papers at 3 scientific meetings; First author of one submitted (pending) peer-reviewed publication. He currently is a Biologist with the River Studies Program, Texas Parks and Wildlife Department, San Marcos, Texas.

Jennifer Cochran (2005-2008) M.Sc.; Researched the comparative ecology of cichlid fishes in Belize; Presented papers at 2 scientific meetings; Research Editor and Biological Writer, U.S.

Geological Survey, Upper Mississippi Environmental Science Research; PhD University of Minnesota, Currently a lecturer at Winona State University, MN.

Allison Pease (2005-2010) Ph.D.; TAMU Regent's Fellowship, 2005-06; Researched comparative and evolutionary ecology of Central Texas and Neotropical fish assemblages in streams; Presented papers at 7 scientific meetings; Author of 4 peer-reviewed publications (first author of 2); Awarded NSF Doctoral Dissertation Grant 2008; Tom Slick Fellowship, 2009; Postdoctoral research associate at the University of Missouri; Currently an Assistant Professor at Texas Tech University.

Sandra Bibiana Correa (2005-2012) Ph.D.; Researched community ecology of frugivorous fishes in the Amazon River Basin; TAMU Regent's Fellowship, 2005-06; First author of 4 peer-reviewed publications and coauthor of 1 publication; Awarded research grant from Wildlife Conservation Society; Awarded Outstanding PhD student in Department of Wildlife and Fisheries Sciences, 2008; Tom Slick Fellowship, 2010; postdoctoral research associate at University of Georgia; Currently an Assistant Professor at Mississippi State University.

Carmen Montaña (2007-2012) Ph.D.; Researching comparative ecology of cichlid fishes in Venezuela; Presented papers at 8 scientific meetings; First author of 14 and co-author of 8 peer-reviewed publications; Awarded Outstanding PhD student in Department of Wildlife and Fisheries Sciences, 2009; Vice-Chancellor's Award for Graduate Student Research, 2011; Tom Slick Fellowship, 2011; Currently an Assistant Professor at Sam Houston State University, Huntsville, TX.

Katherine Roach (2007-2012) Ph.D.; Researched river hydrology, production, food web ecology, and river conservation challenges; TAMU Merit Fellowship, 2007-08; NSF IGERT ABS Traineeship, 2008-2010; First author of 8 peer-reviewed scientific publications and coauthor of 2 publications; Presented papers at 5 scientific meetings; Received one National Geographic Society Young Investigator grant; Tom Slick Fellowship, 2011; Postdoctoral research associate, University of Montreal-Trois Rivieres, Quebec, Canada; Currently teaching in Wisconsin.

Chouly Ou (2008-2013) Ph.D.; Researched aquatic biodiversity and production dynamics in the Stung Treng-Mekong River RAMSAR site, Cambodia; U.S. Fulbright Fellowship for Graduate Study; Presented papers at 4 scientific meetings; First author of one peer-reviewed scientific publication, instructor for the School for Field Studies – Cambodia environmental science and conservation; Currently she is living in Blacksburg, VA.

Crystal Watkins (2009-2011) M.Sc.; Researched effects of pollution on phenotypic variation and ecology of western mosquitofish; Mills Scholarship 2010; Presented papers at two scientific meetings; Currently a technician with the Texas Commission on Environmental Quality, Dallas, TX.

Elizabeth Carrera (2009-2012) M.Sc.; Researched genetic variation in African bonytongue populations in West Africa; First author of one peer-reviewed scientific publication:

Presented papers at two scientific meetings; Currently working as a landscape architect in Austin, TX.

Andrew Jackson (2010-2012) M.Sc.; Researched community and food web structure of fish assemblages in the Oueme River and floodplain in Benin, West Africa; First author of 2 peer-reviewed publications; Presented papers at two scientific meetings; Currently a contractor in Wisconsin.

Rebecca Pizano (2011-2013) M.Sc.; Researching fish community ecology along the fluvial gradient of the lower Neches River in response to flow; TAMU Diversity Fellowship, NSF Louis Stokes Fellowship; WFSC Outstanding MSc Student Research 2013; Texas Chapter American Fisheries Society Outstanding Graduate Student Research 2013; Presented a paper at one scientific conference; ecologist with the Texas General Land Office; Currently she works for an environmental consulting firm in Houston, TX.

Daniel Fitzgerald (2011-2016) Ph.D.; Merit Fellowship; NSF IGERT Traineeship; Tom Slick Fellowship, Coauthor of 9 peer-reviewed scientific publications; Presented papers at 6 scientific conferences; TAMU college award for outstanding graduate student research (2106); Received Haldane Award from British Ecological Society (2018); Currently an ecologist with the Harpeth Conservancy, Nashville, TN.

Caroline Arantes (2012-2017) Ph.D.; ABS-IGERT Traineeship; Brazil CNPq Fellowship for doctoral study; first author/coauthor of 25 peer-reviewed scientific publications and book chapters; Presented papers at 8 scientific conferences; WFSC award for outstanding PhD student (2015); TAMU Tom Slick Fellowship (2016); TAMU college award for outstanding graduate student research (2105); Currently she is a postdoc at Michigan State University.

Anthony Rodger (2013-2015) M.Sc.; Merit Fellowship; Presented papers at 3 scientific conferences; Coauthor of 2 peer-reviewed scientific publications; Currently he is a fishery ecologist with the Oklahoma Department of Natural Resources.

Luke Bower (2013-present) Ph.D.; Diversity Fellowship; Presented papers at 2 scientific conferences; first author/coauthor of 2 peer-reviewed scientific publications; received NSF Dissertation Improvement Grant; presented papers at 5 scientific conferences; Received Award for Research Excellence by Graduate Student from Texas Chapter American Fisheries Society (2018).

David Saenz (2013-present) Ph.D.; Diversity Fellowship; presented papers at 1 scientific conference; coauthor of 1 peer-reviewed scientific publication.

Edwin Lopez (2013-present) Ph.D.; Colombia COLCIENCIAS Fellowship; Presented papers at 3 scientific conferences; coauthor of 5 scientific publications.

Pablo Gesundheit (2014-present) Ph.D.; Mexican CONACYT Fellowship; Presented papers at 2 scientific conferences; Coauthor of 2 scientific publications; currently on medical leave of absence.

Lorena Ruffener, Universidad Nacional de Cordoba, Argentina (co-advisor, 2014-2017) Ph.D.; Argentina CONECIT Fellowship.

Friedrich Keppeler (2015-present) Ph.D.; Brazil CAPES Fellowship for doctoral study, Coauthor of 3 peer-reviewed scientific publications.

Thethela Bokhutlo (2015-present) Ph.D.; Botswana BUIST Fellowship for doctoral study; Coauthor of 3 peer-reviewed scientific publications.

Yasmin Qunitana (2017-present) Ph.D.; World Wildlife Fund Fellowship for doctoral study; coauthor of 2 scientific publications.

Faculty Mentor for Undergraduate Students Conducting Research under the NSF UMEB Program (* individuals belonging to underrepresented groups in science professions)

Clinton Robertson* (TAMU-College Sta.) 2003-2004

Rosana Lopez* (TAMU-Kingsville) 2003

Carolina Saenz* (TAMU Kingsville) 2004

John Putegnat* (TAMU-College Sta.) 2004-2006

Ramiro Cervantes* (TAMU-Corpus Christi) 2004

Paul Gonzalez* (TAMU-Corpus Christi) 2004

Donmale Gbaanador* (TAMU-College Sta.) 2005-2007

Josiah Payne* (TAMU-College Sta.) 2005-2007

Elizabeth Carrera* (TAMU-College Sta.) 2005-2007

Laura Gabriela Tamez* (TAMU-College Sta.) 2005-2007

Lisa Cervantes* (TAMU-College Sta.) 2006-2007

Maggie Medrano* (TAMU-College Sta.) 2006-2007

Crystal Watkins* (TAMU-College Sta.) 2006-2009

Mentor for Other Undergraduate Students Conducting Research (only listing those since 2005)

2005-2007: Crystal Ewell (TAMU-College Sta.)

2006: Kevin Bulla (TAMU-College Sta.)

2006-2007: Cassidy Crane (TAMU-College Sta.)

- 2007: Brian Bachmeyer (TAMU-College Sta.), Alexandra McEvoy (TAMU-College Sta.), Lisa Berryhill* (TAMU-College Sta.), Constance Pottier (ENESAD, Dijon, France)
- 2008: Scott Doolittle (TAMU-College Sta.), James Sims (TAMU-College Sta.), Adam Warnick (TAMU-College Sta.), Will Weise (TAMU-College Sta.)
- 2009: Kristin Scharnweber (University of Potsdam, Germany), Andrew Jackson (TAMU-College Station)
- 2010-2011: Karina Mankiewicz, Jill Sechelski, Trevor Pattillo, Mark Mota, Andy Marshall, Coral Lozada, Seth Flynt, Colt Brandenberger, Esteban Sanchez, Monika Lisbon, Shelby Vega (All enrolled at TAMU-College Station)
- 2012: Monika Lisbon, Coral Lozada (TAMU-CS)
- 2013: Daniel Lay, Andrew Vigneaux, Chris Rivera, Srikan Mahadavi, Samantha Angel (TAMU-CS)
- 2014: Srikan Mahavadi (BIEN, TAMU-CS)
- 2015: Srikan Mhavadi (BIEN, TAMU-CS); Brandon Burks, Lauren Naylor, Gabriela Vara (all WFSC TAMU-CS); Gabriel Costa Borba (Univ. Rio Grande do Sul, Brazil), Sergio da Rocha Cunha (Univ. Fed. Amazonas, Brazil), Haley Stehling (WFSC TAMU-CS), Holly Jo Pierro (BIOL TAMU-CS)
- 2016: Boone Flynn (Ft. Lewis College), Verlon Baize, Richard Loveland (WFSC TAMU-CS)
- 2017: Verlon Baize, Isaac Lord (WFSC TAMU-CS)

Service on Graduate Advisory Committees (1992-present)

Department of Wildlife and Fisheries Sciences

- PhD Carl Beaver, Jessica Beck, Joseph Bielawski, Michael Brown, Yesim Buyukates, Ivan Castro, Felipe Chavez, Cade Coldren, Adrian Dahood, William Dailey, Betty Elder, Karine Gil, Christopher Harrison, Dan Leavitt, McAlister Maxwell, Tamara McGuire, Steven Murden, Daren Riedle, Daniel Saenz, Chris Schalk, Erin Seney, David Shormann, Jonathan Stern, Michael Suplee, Eric Tsakiris, Christopher Walker, Can Zhou
- Master's Christine Burgess, Claudia Ceballos, Jeff Childs, Debbie Devore-Sparks, Regan Errera, Elizabeth Fejes, Nathan Furey, Scott Goff, Elizabeth Henderson, Matthew Herbert, Wendee Holtcamp, Young Hee Hur, Carolyne Kurle, Ray Li, Christopher

Mahendran, Martin, Katherine Maze, Raleigh McClure, Michael Morgan, Kim Reich,
Daren Riedle, Ameer Rief, Clifton Ruehl, Amanda Sabalusky, Nicole Smolensky,
Karen St. John, Greg Stunz, Mike Treglia, Patricia Wojcik

Department of Entomology

Master's Amy Bader, Alejandro Calixto, Takesha Henderson, Jessica Honaker,
Robert Puckett, Michael Quinn, Kira Zhaurova

PhD Hamé Addou Kadi Kadi, Carlos Bogran, Yared Hailemichael, James
Martin, Jared Prasifka, Robert Puckett, Catherine Zindler

Department of Biology

Master's John Scott Harrison, Zane Homesly, Edward Moeller

PhD Christy Pattengill, Kenyon Mobley, Brad Johnson, Zach Culumber,
Emily Kasl, Gaston Jofre, Pablo Delclos, Sherdina Romney, Maureen
Hayden

Texas A&M Water Program

Master's Stephen Davis

Department of Philosophy

Master's Jannai Shields

Department of Rangeland Ecology and Management

PhD Justin Derner, John Hendrickson

Department of Recreation, Parks and Tourism Science

PhD Nick Jacobsen

Department of Oceanography

Master's Greg Breed, Brian Jones

Department of Nuclear Engineering

Master's Thomas Tucker

Texas A&M Corpus Christi

PhD Gabriela Ahmadi

University of Miami

PhD Jasper Lament

Pondicherry University, India (examiner)

PhD B. Rajagopal

Université Lyon, France (examiner)

PhD Sylvie Mérigoux
Monash University, Australia (examiner)

PhD Alison King
Texas Tech University

PhD Chris Higgins
Colegio de la Frontera Sur

PhD Miriam Soria Barreto
Université d'Abomey-Calavi, Benin

PhD Alphonse Adite
University of Wisconsin

PhD Aaron Koning
Université Lyon, France (examiner)

PhD Pablo Tedesco
University of Western Australia (examiner)

PhD Leah Beesley
Columbia University, New York City

PhD Robert Schelly
James Cook University, Australia (examiner)

PhD Thomas S. Rayner
James Cook University, Australia (examiner)

PhD Aaron Davis
Montpellier Supagro, France (examiner)

PhD Sébastien Villéger
University of Alabama

PhD Andrew Rypel
Rhodes University, South Africa (examiner)

PhD Henning Winkler
Griffith University, Australia (examiner)

PhD Clayton Sharpe
Rhodes University, South Africa (examiner)

PhD Wilbert Kadye
University of Toronto, Canada (examiner)

PhD Tiffany Schriever

Instituto Nacional de Pesquisas da Amazônia, Brazil (examiner)

MSc Raimundo Nonato Gomes Mendes Júnior

Rhodes University, South Africa (examiner)

PhD Geraldine Taylor

University of North Texas

PhD Brittany Harried

Special Advisor to Brazilian PhD Exchange Students Resident at TAMU

Eloisa Revaldaves, Universidade Estadual de Maringá (1999-2000)

Alexandre Garcia, Universidade Federal de Rio Grande do Sul (2000, 2001)

Miriam Pilz Albrecht, Universidade Federal de Rio de Janeiro (2004, 2006)

Danielle Peretti, Universidade do Estado do Rio Grande do Norte (2005-2006)

Erico Takahashi, Universidade Estadual Paulista (2009-2010)

Fabio Cop Ferreira, Universidade Estadual Paulista- Rio Claro (2010-2011)

João Paulo Alves Pagotto, Universidade Estadual de Maringá (2012-2013)

Mônica Ceneviva Bastos, Universidade Estadual de São Paulo (2013)

Fernanda Possatto, Universidade Federal do Paraná (2014-2015)

Cristhiana Röpke, Instituto Nacional de Pesquisas do Amazonia (2014-2015)

Jaqueline de Bem, Universidade Federal de Santa Catarina (2014-2015)

Friedrich Keppeler, Universidade Federal de Rio Grande do Sul (2014)

Rodrigo Ferreira Bastos, Universidade Federal de Rio Grande do Sul (2015-2016)

Larissa Strictar, Universidade Estadual de Maringá (2015-2016)

Eduardo Cunha, Universidade Estadual de Maringá (2016)

Marcelo Andrade, Universidade Federal do Pará (2016)

Tiago Begot, Universidade Federal do Pará (2017)

Laisa Cavalheiro, Universidade Federal do Rio Grande do Sul (2017-2018)

Sonia Huckembeck, Universidade Federaldo Rio Grande (2017-2018)

Special Advisor to Venezuelan Graduate Student Resident at TAMU

Carmen Montaña, Universidad de los Llanos Occidentales (2005)

Special Advisor to Mexican Graduate Student Resident at TAMU

Miriam Soria Barreto, Colegio de la Frontera Sur (2006)

Special Advisor to Turkish Graduate Student Resident at TAMU

Nehir Kaymak, Gaziosmanpasa University (2013-2104)

Host and Collaborator with Foreign Scientists on Exchange Visits at TAMU

Aniello Barbarino, Instituto Nacional de Investigaciones Pecuarias, Venezuela (1993, 2003)

Francisco Garcia de Leon, Universidad de Tamaulipas, Mexico (2000)

Erica Pellegrini Caramaschi, Universidade Federal de Rio de Janeiro, Brazil (2001-2002)

Alphonse Adite, Université Abomey-Calavi, Benin (2004, 2009)

Alexandre Garcia, Universidade Federal de Rio Grande do Sul, Brazil (2004, 2005, 2007)

Rocio Rodiles, El Colegio de la Frontera Sur, Mexico (2004, 2016-2017)

Alfonso Gonzales, Colegio de la Frontera Sur (2006)

Donald C. Taphorn, Universidad de Los Llanos Occidentales, Venezuela (2007)

Sunil Chaudhary, T M Bhagalpur University, India (2008)

Ursulla Pereira Souza, Universidade Estadual Paulista- Rio Claro, Brazil (2010)

Zhongsuo Wang, Capital Normal University, Beijing, China (2012-2013)

Luis Espinola, Instituto Nacional de Limnología, Santa Fe, Argentina (2014)

Pitagoras Piana, Universidade Estadual do Oeste do Paraná, Brazil (2016)

Miriam Soria Barreto, El Colegio de la Frontera Sur, Mexico (2016)

Binsong Jin, Nanchang University, China (2017-2018)

Luciano Montag, Universidade Federal do Pará, Brazil (2017-2018)

Service to Professional Societies

Session Chair, Annual Meeting, American Society of Ichthyologists and Herpetologists, Austin, Texas (2017)

Judge, Poster presentations, Annual Meeting, Texas Chapter American Fisheries Society, Corpus Christi, Texas (2017)

Award Selection Committee, Clark Hubbs Student Research Award, Texas Chapter American Fisheries Society (2014-present)

Proposed, organized and chaired two special sessions on environmental flows and river ecosystem connectivity at the Meeting of the Ecological Society of America, Austin, TX (2011)

Board of Governors (Elected), American Society of Ichthyologists and Herpetologists (2005-2009)

Editorial Board (Associate Editor), *Ecology*, *Ecological Monographs*, *Ecosphere*, Ecological Society of America (2001-present)

TAMU Chapter Sigma Xi, Distinguished Scientist Award Selection Committee (2008, 2009)

Buell Award Judge, Ecological Society of America (2001)

Stoye Award Judge, American Society of Ichthyologists and Herpetologists (2000, 2001, 2003)

Nominating Committee (Elected), American Society of Ichthyologists and Herpetologists (1999-2001; Elected Chair 2000-2001)

Assistant Editor, *Journal of Fish Biology*, Fisheries Society of the British Isles (1998-2003)

Board of Governors (Elected), American Society of Ichthyologists and Herpetologists (1997-2001)

Associate Editor, *Transactions of the American Fisheries Society*, American Fisheries Society (1995-1996)

American Fisheries Society, Judge for Publications Award (1995-1998)

American Fisheries Society, Judge for Education Excellence Award (1995-1999)

American Fisheries Society, Judge for Skinner Student Travel Awards (1995)

Texas Chapter American Fisheries Society, Awards Committee (1995)

TAMU Chapter American Fisheries Society, Judge for Student Awards (1995, 1996)

American Society of Ichthyologists and Herpetologists, Editorial Board, *Copeia* (1994-1998)

Ecological Society of America, Judge for Mercer Award (1993, 1994)

American Society of Ichthyologists and Herpetologists, Ichthyology Program Chair & Local Committee (1993)

American Society of Ichthyologists and Herpetologists, Symposium Organizer (1993)

SW & Rocky Mountain Division of the American Association for the Advancement of Science, Local Organizing Committee (1987)

American Society of Mammalogist, Local Organizing Committee (1980)

Service as Reviewer (reviewed multiple times and/or annually for many journals)

Funding proposals: National Science Foundation (multiple annually), National Geographic Society (multiple), Rufford Grant Foundation (2012, 2017), Critical Ecosystem Partnership Fund Indo-China (multiple 2009-2010), University faculty tenure & promotion applications (multiple), World Wildlife Fund Fuller Fellowships (multiple), Swiss National Science Foundation (multiple), US Environmental Protection Agency, National Marine Fisheries Service (NOAA), TAMU-Mexico CONICIT Program (multiple), Georgia Sea Grant, New York Sea Grant, Austrian Science Fund, Texas Natural Resource Conservation Commission, American Association for the Advancement of Science, Houston Advanced Research Center, Michigan Sea Grant, Templeton Foundation, Texas Comptroller

Journal Publications (various multiple annually): *Science, Nature, Proceedings of the National Academy of Science USA, Scientific Reports, The American Naturalist, Ecology* (editorial board), *Ecological Monographs* (editorial board), *Ecosphere, Transactions of the American Fisheries Society, North American Journal of Fisheries Management, Limnology and Oceanography, Ecology Letters, Conservation Letters, Nature Sustainability, Copeia, Environmental Biology of Fishes, Canadian Journal of Fisheries and Aquatic Sciences, Biochemical Systematics and Ecology, Journal of Fish Biology, Oecologia, Acta Oecologia, Oikos, Trends in Ecology and Evolution, Journal of the North American Benthological Society, Journal of Animal Ecology, Journal of Tropical Ecology, Ecology of Freshwater Fish, Fish and Fisheries, Marine & Freshwater Research, Conservation Biology, Texas Journal of Science, Estuaries, Archives fur Hydrobiologie, Acta Scientiarum, Biological Invasions, Biotropica, Brenesia, Biollania* (editorial board), *Estuaries, Marine Ecology Progress Series, Hydrobiologia, Journal of Freshwater Ecology, Reviews in Fish Biology, River Research and Applications, Southwestern Naturalist, Fishery Bulletin, Aquatic Living Resources, Cybium, Scientia Guaianae, Ichthyological Explorations of Freshwaters, Bulletin de la Peche et de la Pisciculture, Journal of Aquatic Ecosystem Health, Environmental Management, Southeastern Fishes Council Proceedings, Georgia Water Resource Conference Proceedings, Revista de Vida Silvestre Tropical, Revista Boliviana de Ecología y Conservación Tropical, Zootaxa, Aquatic Invasions*

Book Publishers: Academic Press, Chapman & Hall Publishers, Blackwell Scientific Publishers, Elsevier Publishers, MacMillan Press, W.H. Freeman Publishers, Princeton University Press, American Fisheries Society- *Reservoir Symposium Volume, Stream Fish Ecology Volume*, University of Chicago Press.

TV/Film: Zebra Film Productions, National Geographic Television, Discovery Channel, British Broadcasting Corporation

Authored TAMU Memoranda of Agreement with

Université de Abomey-Calavi, Benin– 2004

Fondo Nacional de Investigaciones Agropecuarias, Venezuela– 1998

Universidade Estadual de Maringá, Brazil– 1992, renewals 1995, 2006, 2015

Universidad Experimental de los Llanos Occidentales Esequiel Zamora, Venezuela– 1992, renewal 1995

Faculty Advisor

Ecological Integration Symposium Student Organizing Committee (principal advisor 2009-2017)

TAMU Chapter Society for Conservation Biology (co-advisor 1993-1997, 2007-2009)

TAMU Chapter American Fisheries Society (principal advisor 1994-1996)

TAMU Aggie Anglers (principal advisor 1993-2001)

Service to Department, College, University

- TAMU, Selection Committee for Association of Former Students Distinguished Achievement in Research Award (2018)
- Office of Graduate Studies, Diversity Fellowship Selection Committee (2018)
- WFSC Bylaws Committee (2017-2018)
- College of Agriculture and Life Sciences, Faculty Development Leave Evaluation Committee (2016-2017)
- WFSC Fisheries Ecologist Search Committee (2016-2017)
- WFSC Lecturer Search Committee (2016)
- WFSC Undergraduate Fisheries Curriculum Revision Committee (2014-2015)
- WFSC Faculty Cluster Hire Proposal Committee (2014)
- WFSC Metrics Committee (Chair, 2014)
- Office of Graduate Studies, Merit and Diversity Fellowship Selection Committee (2013)
- WFSC Undergraduate Curriculum Committee, Chair (2011-2012)
- College of Agriculture and Life Sciences, Faculty Fellows Selection Committee (2011-2012)
- Panelist, TAMU Office of Proposal Development Workshop - “How to Compete for NSF Funding” (Feb. 25, 2009)
- International Programs Enhancement and Coordination Committee, Subcommittee to review safety information requirements for students traveling abroad (2008)
- Department of WFSC, Graduate Curriculum Special Committee (Chair, 2008-2009)
- Associate Chair, TAMU Interdisciplinary Research Program in Ecology and Evolutionary Biology (2008-2009)
- Applied Biodiversity Science, NSF-IGERT Training Grant, Steering Committee (2007-2012), Traineeship Selection Committee (2008)
- College of Agriculture and Life Sciences, Tenure and Promotion Committee (2 years)
- Panelist, TAMU Office of Proposal Development Workshop- “How to Compete for NSF Funding” (Feb. 20, 2007)
- Selection Committee for Bush Excellence in Public Service Award (2007)
- WFSC Search Committee for Quantitative Ecologist (2007)
- Faculty consultant for development of a TAMU “Funding Diversity” Workshop, (Oct. 2006, Nov. 2006)
- Faculty Senate (elected), Ag Caucus, International Programs Committee, Personnel and Welfare Committee (2006-2009)
- TAMU Tenure Mediation Committee (2006-2009), Chair (elected) (2007)

WFSC Search Committee for Department Head (elected) (2006)
Chair (elected) of Interdisciplinary Program in Ecology and Evolutionary Biology (2004-2007)
Coauthored Proposal for Integrative Research Program in Ecology and Evolutionary Biology
(with R.L. Honeycutt) (2003-2004)
TAMU Dept. of Entomology Search Committee for Insect Ecologist/Integrative Pest
Management Assistant Professor (2004-2005)
Elected Member, College of Agriculture and Life Sciences Vice-Chancellor's Faculty Advisory
Committee (2002-2004), (Elected Chair 2003-2004)
Judge for Graduate Student Research Symposium, Dept. Entomology (2001)
Evaluation Committee TAMU- Fulbright Scholarship Program (2001)
Drafted Initial Proposal for a TAMU School of Renewable Natural Resources (1999)
WFSC Graduate Affairs Committee (1997-2007)
Judge for Graduate Student Research Symposium, Dept. WFSC (1993-2001, 2004-2006)
Graduate Research Enhancement Fund Committee (1994-2001)
WFSC Seminar Committee (1992-93, 1998-2007)
Conservation Biology Graduate Program Recruitment Contact (1994-2001)
WFSC Faculty Advisory Board (1997-98)
WFSC Limnologist Search Committee (1998)
WFSC Herpetologist Search Committee (1996)
WFSC Fisheries Biologist Search Committee (1995)
WFSC Departmental Retreat Committee (1994-95, Chair 1995)
WFSC Undergraduate Affairs Committee (1994-96)
WFSC Library Committee (1992-93).